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LIMA LOCOMOTIVE WORKS
INCORPORATED
LIMA, OHIO, U. S. A.

PISTON VALVES
GEARED LOCOMOTIVE

Class SHAY-150-3 Dept. ENGINEERING

WESTERN MARYLAND RY CO.

	CONSTRUCTION ORDER No.	SHOP NUMBERS	DATE	DRAFTSMAN
1-ENG.	510	3354		BAKER & O'CONNOR BODELL, FRITZ AND CO.

Class SHAY 150-3 Dept ENGINEERING

WESTERN MARYLAND RY CO

CONSTRUCTION ORDER No	SHOP NUMBERS	DATE	DRAFTSMAN
1-ENG. 510	3354	1945	BAKER (O'CONNOR BODELL, FRITZ AND CO.) BARNEY ALLEN

3-CYL. 17" X 18" - 48" DRIVERS

4'-8½" - GAUGE

FORM LED 60

510

510

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	DATE	Page	

C. O. 510

Frame was spread 2" to allow oversize firebox to enter. 2" blocks welded to crossties except furnace bearers which were cut at center and filled in by welding.

1/2"x 5-1/2"liners applied between grate side rails and firebox.

Future note boiler drawings outside limit on width of firebox.

Future cylinder cock operating shaft 1" dia. instead of 3/4" Operating arms to be applied with taper pins instead of set screws.

Forward Motion Valve travel 4-3/4" all cylinders.
Back motion valve travel 4-25/32" " "
#1 cyl. lead 9/64" forward motion
9/64" back motion
#2 cyl. lead 9/64" forward motion
9/64" back motion
#3 cyl. lead 3/16" forward motion
5/32" back motion

Future allow 1/2" liner between front mudring lug and crosstie.

Future metallic packing for cylinder valves.

Future smoke box brace pads to have larger pins.

	Check	

LED 60-1

Check	Item
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Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 10—ASH PAN								
	1	ASH ~~CAR~~ PAN	1	107-A-5000	MATL: PLATE & BARS RIVETED HOPPERS	- FURNISH PAN COMPLETE				
	2	" Pan Material Bill	1 SET	10-MO-5052	MATL. ORD. IN PD.					
	3	" " Hopper	2	A-11911	FUR. STOP BOLT			10-148		
	4	" " Slide DOOR	2	A-11911				10-147		
	5	" " ~~Door Frame~~ CINDER POCKET	2	107-A-5000						
	6	" " ~~Slide Frame~~ SIDE DRAFT PL.	1-R 1-L	107-A-5000						
	7	" " Door Links	1	107-A-5000	BAR STEEL	10-A-5014				
	8	" " ~~Damper Rigging~~ SUPPORT	8	102-A-5014	PLATE	102-A-5014				
	9	" " " Bell Crank								
	10	" " "OPER. LINK ~~Fulcrum~~	1	102-A-5016		102-A-5016				
	11	" " " ~~Hinge~~ LEVER	1	102-A-5013	C.R.S.	102-A-5013				
	12	" " " SHAFT ~~Lug~~	1	102-A-5018						
	13	" " " " Bar								
	14	" " " Lift—Front								
	15	" " " " —Rear								
	16	" " " ~~Lug~~ LEVER	1	102-A-5015		102-A-5015	(FURN. & WELD IN GUSSET PLATES)			
	17	" " " " "LOCK BRKT	1	102-A-5011		102-A-5011				
	18	" " " ~~Rod Jaw~~ LOCK PIN	1	522-U-428	STEEL- FURNISH COMPLETE	522-U-428	ATTACH CHAIN TO PIN			
	19	" " "LOCK PIN" CHAIN	1-SET	107-A-5000						
	20	" " Netting Frames								
	21	" " Slide Rigging PIN	3	102-F-384	STEEL					
	22	" " " ~~Rod~~ "	1	102-H-384	STEEL					
	23	" " " Jaw								
	24	" " Shaft Bearing - OUTSIDE	1	102-A-5010		102-A-5010				
	25	" " Cleaning Door Hinge								
	26	" " Bell Crank Bracket								
	27	" " SHAFT BEARING-INSIDE	1	102-A-5012	ANGLE	WELD IN LUGS FOR BRGS.				
	28									
	29									
	30	GROUP 11—AXLES								
	31	AXLE	6	112-A-5054		112-A-5054				
	32	"								
	33	GROUP 12—BELL ORDERING PRINT		N.S.G. PT. M-25179			H.S. BELL IRON H.S. PAT. 2			
	34	BELL ARRANGEMENT	1-SET	123-A-5002	FURN. TAPER PINS NUTS & COTTERS					
	35	" Frame	1	122-A-5032	CST.			12-320		

23	" " " Jaw									
24	" " Shaft Bearing — OUTSIDE	1	102-A-5010		102-A-5010					
25	" " Cleaning Door Hinge									
26	" " Bell Crank Bracket									
27	" " SHAFT BEARING - INSIDE	1	102-A-5012	ANGLE	WELD IN LUGS FOR BRGS.					
28										
29										
30	GROUP 11—AXLES									
31	AXLE	6	112-A-5054		112-A-5054					
32	"									
33	GROUP 12—BELL ORDERING PRINT		H.S.G. PT. M-25179			H.S. BELL IRON H.S. PAT. #2.				
34	BELL ARRANGEMENT	1-SET	123-A-5002	FURN. TAPER PINS NUTS & COTTERS						
35	" Frame	1	122-A-5032				12-320			
36	" " ~~Base~~ MACHINING DWG.	1	122-A-5031	CSTG.						
37	" Yoke	1	122-A-5034			12-234				
38	" " ~~Nut~~ TRUNNION	1	122-A-5033	O.R.S.						
39	" " ~~Pin~~ "	1	122-B-5033	" " " "						
40	" ~~Crank~~ WASHER	1	123-A-5002	15/16" I.D. X 2-1/2" O.D. X 3/8" THK. — STEEL	FIN. SIZES					
41	" Tongue	1	122-A-5006				12-35			
42	" " Fulcrum	1	122-C-5007	BAR STEEL						
43	" Ringer Bracket									
44	" Rope Details									
45	" " Sheave									
46	" " " Chair									
47	" " " Frame									
48	" " Thimble									
49	" " " Washer									
50	" Ringer KING TYPE	1	U.S.M.P.CO. PT. BR-105-F							
51										
52	GROUP 13—BOILER									
53	Boiler Plan (C.D. NO. 130-A-5003 CO. 5/0 ONLY)	1	130-B-5002		FOR FUTURE ORDERS					
54	" Sections " " " "		"							
55	" Material Bill	1 SET	13-MO-5098-D							
56	" Bracing List	1 SET	130-A-5002							
57	" MATERIAL BILL (FLEX. STAYBOLTS)	1 SET	13-MO-5099-C							
58	" RIVET MATERIAL	1 SET	13-MO-5100-A							
59	" DOME LINER & 2ND. COURSE SEAM	1	133-A-5007							
60	" TEST PRESSURE - WATER		250#							
61	" " " STEAM		225#							
62	" " " WORKING		200#							

LED 60-2

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 14—BOILER DETAILS								
	1	Boiler Brace Rod Ends	6	310-D-153		310-S-82				
	2	" " " "	26	11762 SET 2		117-F-202				
	3	" " " "	10	310-D-208		310-S-150				
	4	" " " "								
	5	" " " "								
	6	" " " Lugs	8	142-A-5001		14-A-5001				
	7	" " " "	2	310-D-421		310-S-29				
	8	" " " "	2	310-D-149		310-S-72				
	9	" " " "								
	10	" " " Jaws	26	310-D-164	FURNISH BOLTS	310-S-105				
	11	" " " "	4	310-D-160	" "	310-S-65				
	12	" " " "	8	142-A-5001	" "	310-S-276				
	13	" " " "	2	310-D-421	" "	310-S-266				
	14	" " " "	2	310-D-149	" "	310-S-66				
	15	" " " "								
	16	" Sling Stay								
	17	" " "								
	18	" Throat Brace	8	11766 LINE 2		11766 LINE 2				
	19	" " " STAY	16	" "	STAYBOLT IRON					
	20	" Crown Bars								
	21	" " Roof Irons								
	22	" Stay Bolt LOCATION	1 SET	132-A-5004						
	23	" " " SCHEDULE	1 SET	132-A-5005						
	24	" Radial Stay								
	25	" " "								
	26	" " "								
	27	" Cross Stay								
	28	" Tee Bar	1 SET	130-B-5002						
	29	" " "								
	30	" " "								
	31	" " "								
	32	" " "								
	33	" " "								
	34	" Mud Ring	1	144-A-5000						

LED 60-3

Check	Item	
		GROUP 20—
	1	BRAKE C
	2	AIR PU
	3	"
	4	"
	5	"
	6	"
	7	BRAKE
	8	"
	9	" PIN
	10	"
	11	"
	12	"
	13	"
	14	"
	15	"
	16	"
	17	"
	18	"
	19	"
	20	"
	21	" R
	22	"
	23	"
	24	"
	25	"
	26	"
	27	"
	28	" C
	29	" E
	30	" V
	31	"
	32	"
	33	"
	34	"

24	" " Radial Stay										24	"
25	" " " "										25	"
26	" " "										26	"
27	" Cross Stay										27	"
28	" Tee Bar	1 SET	130-B-5002								28	"
29	" " "										29	"
30	" " "										30	"
31	" " "										31	"
32	" " "										32	"
33	" " "										33	"
34	" Mud Ring	1	144-A-5000								34	"
35	" Tube Sheet Ring	1	142-B-5016				14-4				35	"
36	" " " Studs	8	"	STEEL							36	"
37	" Smoke Box Ring	1	130-B-5002		14-E-5000						37	"
38	" " " "										38	"
39	" Tube (small)	156	2" O. DIA.								39	"
40	" Flue (large)	28	142-M-9								40	"
41	" Combustion Tubes										41	"
42	" Tube Setting	1 SET	11632 STYLE #4								42	"
43	" Flue "										43	"
44	" Test Plate	1	142-A-494	STAMP PER SPECIFICATION				14-293			44	"
45											45	"
46	GROUP 15—BOLTS AND NUTS										46	"
47	AIR GAUGE PANEL SUPPORT	1	182-B-5120	BAR STEEL	182-B-5120		(FURN. & WELD GUSSET)				47	"
48	GROUP 18—BRACKETS		CONTINUED	ON PAGE 15							48	"
49	Air Gauge Bracket PANEL	1	182-A-5120	PLATE-WELD ON LUG							49	"
50	Steam Gauge Bracket	1	182-A-5117	PLATE	182-A-5117						50	"
51	Bottom Bracket	1	187-A-5017				18-527				51	"
52	" " Caps	4	182-A-5031				18-57				52	"
53	" " Bearing—Top	4	182-B-5044					BRONZE 18-328			53	"
54	" " " —Bottom	4	182-B-5064					BRONZE 18-330			54	"
55	" " " Wedge	4	182-A-5012			18-45					55	"
56	" " Wedge Screw	4	182-E-5022		87-F-14						56	"
57	" " " " Nut	4	" "	STEEL	1/4"-50 X 1 3/4" LONG FIN. SIZES						57	"
58	" " " " Cap	4	182-B-5075	STEEL							58	"
59	~~Steam~~ Bracket FILLER BLOCK	4	182-A-426	STEEL	182-A-426	FOR R.B. BKTS. R.S. FIREBOX					59	"
60	" " —Back										60	"
61	" " Brace										61	

PATTERN NUMBERS Cast Iron	Mal. Iron	Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
				GROUP 20—BRAKE EQUIPMENT								
			1	BRAKE CYLINDER								
			2	AIR PUMP SUPPORT - FT.	1	203-A-5024	WELD BRACE ON MATL.	20-A-5140				
			3	" " [illegible] - BK.	1	" "	" " "	20-A-5140				
			4	" " " BRACE	2	" "	" " "	20-A-5141				
			5	" " Stuff. Box Gland								
			6	" " " " "								
			7	BRAKE [illegible] CYLINDER PUSH ROD	3	842-A-36		842-A-36				
			8	" "								
			9	" PINS [illegible]	3	202-B-5312	[illegible]					
			10	" " " " "	3	202-C-5312	" "					
			11	" " " " "	4	202-D-5312	" "					
			12	" " " " "	1	202-P-5312	" "					
			13	" " [illegible]	3	202-M-5312	" " "					
			14	" " " [illegible]	6	202-J-5312						
			15	" " "	6	202-E-5312						
			16	" " " [illegible]	6	202-K-5312						
			17	" [illegible]	6	202-L-5312						
			18	" " " "	6	202-H-5312						
			19	" [illegible]	6	202-F-5312						
			20	" "	24	202-N-5312						
			21	" Reservoir Blocks								
			22	" " Support	2	203-A-5023	PLATE					
			23	" " " PLATE	1	" "	BAR STEEL					
			24	" " " U-BOLT	2	" "		20-A-5139				
			25	" " " Strap	2	" "		20-A-5138				
			26	" [illegible] PLATE	1	203-B-5023	BAR STEEL					
			27	" " "								
			28	" Cyl. Lever Fulcrum	1							
			29	" Equipment MATERIAL ORDER SET		20-MO-5036-B						
			30	" Valve BRACKET	1	202-A-5316	FURNISH COMPLETE	202-A-5316		(WELDED CONSTRUCTION)		
			31	" " PUMP DRIP PAN [illegible]	1	192-F-504						
			32	" " [illegible] " BRKTS	2	192-A-504		192-A-504				

		24	"	"	U-BOLT	2	"	"		20-A-5138	
		25	"	"	" Strap	2	"	"		20-A-5138	
		26	"	[redacted]	PLATE	1	203-B-5023	BAR STEEL			
		27	"	"	"						
		28	"	Cyl. Lever Fulcrum		1					
		29	"	Equipment	MATERIAL ORDER SET		20-MO-5436-B				
		30	"	Valve	BRACKET	1	202-A-5316	FURNISH COMPLETE	202-A-5316	(WELDED CONSTRUCTION)	
		31	"	"	PUMP DRIP PAN	1	192-F-504				
		32	"	"	[redacted] " BRKTS.	2	192-A-504		192-A-504		
		33	"	"	[redacted] "	2	192-B-504		192-B-504		
		34	"	"	[redacted] " FITTING	1	192-C-504	BAR STEEL			
		35	"	"	Handle						
		36	"	"	" Latch						
		37	"	"	GOVERNOR SUPPORT [redacted]	1	202-A-5309	FURN. GUSSETS	202-A-5309		
		38	"	"	STRAINER SUPPORT [redacted]	1	202-B-5309	"	202-B-5309		
		39	"	"	" " Follower						
		40	"	"	EQ. RES. SUPPORT [redacted]	2	192-N-350		192-N-350		
		41	"	"	" " [redacted] BLOCKS	2	192-B-305	TEE IRON			
		42	"	Distributing Valve Bracket		1	202-A-5310	PLATE	202-A-5310		
		43	"	Relief Valve							
7-293		44	"	"	" —Top						
		45	"	"	" —Base						
		46	"	—Frame Body							
		47	"	Lever—Frame	TEND.	1	202-A-5308	PLATE			
		48	"	"	" FT.	1	202-A-5305	PLATE			
		49	"	"	" BK.	1	202-A-5306	PLATE			
		50	"	"	"						
		51	"	"	"						
		52	"	"	"						
BRONZE 7-328		53	"	"	Fulcrum—Frame TEND.	1	202-A-5313	BAR STEEL	202-A-5313	(FURN. COMPLETE WITH GUSSET)	
BRONZE 8-330		54	"	"	" " FT.	1	202-A-5314		202-A-5314	(FURN. COMPLETE WITH GUSSET)	
		55	"	"	" " BK.	1	202-A-5296		202-A-5296	(" " " ")	
		56	"	"	Guides " LINKS	4	202-A-5304		202-A-5304		
		57	"	"	" "	1	202-A-5319	"	202-A-5319		
		58	"	"	" "	1	202-B-5319		202-B-5319		
		59	"	"	" "	1	202-C-5319		202-C-5319		
		60	"	"	" "	1	202-D-5319		202-D-5319		
		61	"	"	SUPT. "	1	202-A-5318	ANGLE	202-A-5318		

LED 60-4

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 20—BRAKE (Cont.)								
	1	Brake Cylinder Bracket—Frame FT.	1	202-A-5317	CHANNEL & ANGLES		FURNISH COMPLETE			
	2	" " " " BK.	1	202-A-5297			" "			
	3	" Rods " FT.	1	202-B-5304		202-B-5304				
	4	" " " BK.	1	202-C-5304		202-C-5304				
	5	" " " TEND.	1	202-D-5304		202-D-5304				
	6	" " "								
	7	" " HEAD LINKS TRUCK	8	939-A-5002		20-R-5027				
	8	" " " " TRUCK	16	939-A-5002		20-S-5027				
	9	" CYL. SUPPORT-TENDER	1	202-A-5298	PLATE	202-A-5298	(FURNISH COMPLETE STUDS, GUSSETS & LUGS)			
	10	" Beam— Truck	2	202-A-5311	I-BEAM		(FRONT OF FT. TRK.			
	11	" " Fulcrum "	6	202-A-5299			(REAR OF TEND. TRK.)			
	12	" " Safety Chain "	4	939-A-5002				20-86-A		
	13	" " [illegible] "	8	939-A-5002		20-T-5059		(FURN. COMPLETE)		
	14	" Hanger LUG "	1	202-B-5072	L.S. FRONT ON CENTER TRUCK	20-S-5059		(" "		
	15	" " Lug "	7	202-A-5072					20-632	
	16	" Heads "	12	203-F-5008					20-632	
	17	" Shoes "	12	202-A-5227					20-603-A	
	18	" [illegible] KEYS "	12	STD. A.A.R.			20-438			
	19	" LEVER "	6	202-B-5301		202-B-5301				
	20	" " LINKS "	6	202-A-5301		202-A-5301				
	21	" HANGER LUG "	4	202-A-5303		202-A-5303				
	22	" " " " "	2	202-B-5303		202-B-5303				
	23	" " LINKS "	12	202-A-5302		202-A-5302				
	24	" Rod "	3	202-A-5300		202-A-5300				
	25	" " ADJUSTABLE "	3-SET	202-A-5307	TURN BUCKLE					
	26	" " " SPUD	3	202-A-5307		202-A-5307				
	27	" " " CLEVIS "	3	202-A-5307		202-A-5307				
	28	Truck [illegible] BRAKE HANGER	6	202-B-5302		202-B-5302				
	29	" " BRAKE BEAM Shoe [illegible]	4	202-B-5311	I-BEAM		(REAR OF FT. TRK. FT. & BK. CENTER TRK. FT. OF TEND. TRK.)			
	30	GROUP 21—BUMPERS PUSH POLE POCKET-FRONT LS	1	212-B-5002			21-7			
	31	End Timber Arrangement—Front	1 SET	214-A-5037	WOOD-CON ENG)					
	32	" " " Rear	1 SET	214-A-5038	WOOD CON TENDER)					
	33	" " Channels—Front	1							

LED 60-5

NOTE: THESE SUPPORTS HAVE BEEN REINFORCED WITH A 5/8"X12"X63" STEEL PLATE WELDED IN PLACE R.16492 10-30-45.

Check	Item	
		GROUP 2
	1	Cab Door
	2	" Vent
	3	"
	4	"
	5	"
	6	"
	7	"
	8	" Seat
	9	" "
	10	" "
	11	" "
	12	" "
	13	" "
	14	" "
	15	" Tool
	16	" SEAT
	17	" "
	18	" "
	19	
	20	GROUP 26—
	21	Air Sander
	22	AIR PUM
	23	Angle Valv
	24	" "
	25	" "
	26	" "
	27	" " "
	28	
	29	Ash Pan Co
	30	
	31	Bell Ringer
	32	

24	" Rod	3	202-A-5300		202-A-5300						24	" " Cap	
25	" ADJUSTABLE	3-SET	202-A-5307	TURN BUCKLE							25	" " Stem	
26	" " " SPUD	3	202-A-5307		202-A-5307						26	" " Gland	
27	" " " CLEVIS	3	202-A-5307		202-A-5307						27	" " Nut	
28	Truck ~~Bolster Lower Pedestal~~ BRAKE HANGER	6	202-B-5302		202-B-5302						28		
29	" ~~Swing~~ BRAKE BEAM	4	202-B-5311	I-BEAM		(REAR OF FT. TRK. FT & BK. CENTER TRK. FT. OF TEND. TRK.)					29	Ash Pan Cock	
30	GROUP 21—BUMPERS PUSH POLE POCKET-FRONT L.S.	1	212-B-5002			21-7					30		
31	End Timber Arrangement—Front	SET	214-A-5037	WOOD-(ON ENG)							31	Bell Ringer Valve KING #16	
32	" " " —Rear	SET	214-A-5038	WOOD (ON TENDER)							32	BELL RINGER LINE VALV	
33	" " Channels—Front	1	214-A-5037	CHANNEL							33	Blower Valve TURRE	
34	" " " —Rear		SEE TENDER	FRAME							34	" " Cap	
35	" " ~~Drawbar Blocks~~ BACK PLATE - FRONT	1	213-A-5081	PLATE							35	" " Stem	
36	Push Pole Pocket FRONT - R.S.	1	212-A-5002			21-7					36	" " Gland	
37	" " " REAR	2	212-A-5002			21-7					37	" " Nut	
38	END TIMBER ANGLE - FRONT	1	214-A-5037	ANGLE 4"X4"X7/16"							38	Blow Off Cock 2" TYPE F.	
39	GROUP 22—CAB										39	" " " Cap	
40	Cab	1	227-A-5003	PLATE & ANGLES WOOD LINED	FURNISH WINDOWS, DOORS, ETC. OF WOOD						40	" " " Plug	
41	" Material Bill	SET	22-MO-5032-A	PLATE							41	" " " Nut	
42											42	" " " Washer	
43											43	" " ~~Extension~~ JOINT	
44	GROUP 23—CAB DETAILS										44	Blow-off Valve	
45	Cab Arm Rest	2	232-A-5032	WOOD UPHOLSTERED							45	Injector Starting Valve	
46	" Joint Plate										46	" " " Cap	
47	" ~~Stirrup~~ INSPECTION CARD FRAME	1	"PRIME" 960		MOUNT ON ROOF LINING L.S.						47	" " " Stem	
48	" Saddle Angle	1	227-A-5003	ANGLE	23-A-5023						48	" " " Gland	
49	" ~~Plate~~ DECK ARR'G. L.S. SEAT	1-SET	232-A-5048								49	"STEAM VALVE ~~Nut~~ C	
50	" ~~Sash Fixture~~ " PLATE L.S. SEAT	1	233-A-5002	PLATE							50	~~Brake Stop Valve Steam~~ DRAIN VALVE TOP	
51	" Storm Window R.S	1	232-H-5012	WOOD-GLASS & RUBBER GASKET							51	" " " ~~Air~~ BASE	
52	" " " HINGES	1 PAIR	" "	1½"X1½" BUTT ~~Hinges~~ HINGES							52	" " " ~~Inter.~~ SPRING	
53	" " " Adjusting Bar	1	232-A-5010	STEEL	232-A-5010						53	" "	
54	" " " " Plate										54	CYL. COCK SPG. WASHER ~~Cinder Swipe Valve~~	
55	" Awning										55	VALVE EXTENSION ROD F	
56	" Curtain - BACK	1-SET	233-A-5001	COMPLETE LESS WOOD (LIMA TO FURNISH WOOD WORK)							56	Cylinder Cock BODY	
57	" " ~~End~~ EYE-BOLT	4	233-A-5001		23-H-161						57	" " Nut	
58	" Door Fixture										58	" " ~~Sash~~ WASHE	
59	" " " Clamp	2	232-A-5019			23-3					59	" " Valve	
60	" " " " Screw	2	232-A-5018		232-A-5018						60	" " ~~Cap~~ SPRING	
61	" " " " Slide Bar	2	232-A-5023		232-A-5023						61	" " ELBOW	

NUMBERS Mal. Iron	Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
			GROUP 23—CAB DETAILS (Cont.)								
(3 HAVE BEEN WITH A 5/8"X12"X63" WELDED IN PLACE 130-45,		1	Cab Door Fixture Rod	2	232-A-5020	#10 PLATE & ANGLE	232-A-5020				
		2	" Ventilator & ANGLE FRAME	1	232-A-5028						
		3	" " Fixture LIFT	1	11145	STEEL	111-F-30				
		4	" " ~~Handle~~ " PIN	1	1/2" DIA. X 1 3/8" STEEL RIVET - DRILL FOR 1/8" COTTER TO SUIT						
		5	" " " Hinge	1	11145		111-F-31				
		6	" " " Latch STUD	1	232-A-5028	FURN. NUTS STEEL					
		7	" " ~~Rod~~ HINGES	PR.	8" STRAP	BLANK	BEND TO SUIT				
		8	" Seat—Right BOX	1	232-A-5034		WOOD				
		9	" " —Left "	1	" "		"				
		10	" " DECK END PLATE FT.- ~~Rear~~ L.S. SEAT	1	233-B-5002	PLATE					
		11	" " ~~Cushion~~ " BK. L.S. SEAT	1	233-F-5002	"		(FURN. ANGLE & WELD ON)			
		12	" " ~~Back~~ SIDE PLATE " L.S. SEAT	1	233-E-5002	"					
		13	" " ~~Hinge~~ " " - L.S. SEAT	1	233-D-5002	"					
		14	" " ~~Rod~~ " " - R.S. SEAT	1	233-C-5002	"					
		15	" Tool Box								
		16	" SEAT CUSHION R & L	2	232-A-5034		COMPLETE FROM GOSHEN				
		17	" " BACK REST R & L	2	" "		" " "				
		18	" " " " BRACE R & L	2	" "	SPRING STEEL					
		19									
		20	GROUP 26—COCK AND VALVES								
		21	Air Sander Valve LEACH- NO. 29	1	U.S.M.P. CO. PT.-106-B						
		22	AIR PUMP STEAM VALVE (TURRET)	1	CRANE 1" ANGLE- 1875-E		STEM TO TAKE HANCOCK #2 UNIV. JOINT. LOOSE HANDLE.				
		23	Angle Valve								
		24	" " Cap								
		25	" " Stem								
		26	" " Gland								
		27	" " Nut								
		28									
		29	Ash Pan Cock								
		30									
		31	Bell Ringer Valve KING #14	1	U.S.M. PKG CO BR.97-B						
		32	BELL RINGER LINE VALVE	1	CRANE 1/4" GLOBE #376-E						
		33	Blower Valve TURRET	1	CRANE 1" ANGLE #1875-E		STEM TO TAKE #1-HANCOCK UNIV. JOINT. LOOSE HANDLE.				
		34	" " Cap								
		35	" " Stem								

			24	" " Cap								
			25	" " Stem								
			26	" " Gland								
			27	" " Nut								
			28									
			29	Ash Pan Cock								
			30									
			31	Bell Ringer Valve KING #14	1	U.S.M. PKG CO. BR.97-B						
			32	BELL RINGER LINE VALVE	1	CRANE 1/4" GLOBE #376-E						
			33	Blower Valve TURRET	1	CRANE 1" ANGLE #1875-E		STEM TO TAKE #1-HANCOCK UNIV. JOINT. LOOSE HANDLE.				
			34	" " Cap								
			35	" " Stem								
			36	" " Gland								
			37	" " Nut								
			38	Blow Off Cock 2" TYPE F.S.D.	1	OKADEE 1636-A						
			39	" " " Cap								
			40	" " " Plug								
			41	" " " Nut								
			42	" " " Washer								
			43	" " ~~Extension~~ JOINT RING	1	792-S-88						26-208
			44	Blow-off Valve								
			45	Injector Starting Valve								
			46	" " " Cap								
			47	" " " Stem								
			48	" " " Gland								
			49	"STEAM VALVE ~~Nut~~ (TURRET)	2	CRANE-2" ANGLE-1875-E		STEM TO TAKE #2 HANCOCK UNIV. JOINT. LOOSE HANDLE				
			50	~~Brake Stop Valve Steam~~ DRAIN VALVE TOP	3	202-A-5140	STICK BRASS	USED ON EXH. DROP PIPE & SUP. DAMPER CYL. LINES.				
			51	" " " BASE	3	" "	" "					
			52	" " " ~~Inter.~~ SPRING	3	" "						
			53	" "	3	" "						20-71
			54	CYL. COCK SPG. WASHER ~~Cinder Swipe Valve~~	6	263-A-5004	STICK BRASS					
			55	VALVE EXTENSION ROD FOR TURRET	1-SET	STEEL ROD	TO SUIT ERECT SHOP.					
			56	Cylinder Cock BODY	6	263-A-5004						VALVE BRASS 26-584
			57	" " Nut	6	263-A-5004	STICK BRASS	(USE NUTS NOW MADE)				
			58	" " ~~Shield~~ WASHER	6	263-A-5004	STICK BRASS	(RE-WORK WASHER NOW MADE)				
			59	" " Valve	6	263-A-5004						VALVE BRASS 26-585
			60	" " ~~Cap~~ SPRING	6	263-A-5004	SPRING STEEL WIRE					
			61	" " ELBOW	6	262-A-5010						26-581

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 26—COCKS & VALVES (Cont.)								
	1	Drip Valve Brake Exhaust Drain								
	2	" " Check Pipe "								
	3	" " Exhaust " "								
	4	" " Steam Chest "								
	5	DRAIN " Water Gauge "	2		1/2" CRANE-GLOBE #376-E		FIXED HANDLE			
	6	DRIFTING VALVE	1		3/4" CRANE-GLOBE #376-E		" "			
	7	Drip Cock—Brake Exhaust Drain								
	8	" " — " " " —Air								
	9	" " —~~Check Pipe Drain~~ BLOWER	1		1/4" CRANE #700 DRIP COCK					
	10	" " —Fuel Sprinkler Drain								
	11	" " —Siphon Drain								
	12	" " —Oil Heater Drain								
	13	Generator Valve DYNAMO (TURRET)	1		1" CRANE ANGLE-1875-E		STEM TO TAKE #0-HANCOCK UNIV. JOINT.		LOOSE HANDLE	
	14	" " Cap								
	15	" " Stem								
	16	" " Gland								
	17	" " Nut								
	18	DYNAMO LINE SHUT OFF VALVE	1		CRANE 1/2" GLOBE 376-E					
	19	Feed Cock								
	20	Heater Valve								
	21	FIRE DOOR VALVE - (LINE)	1		HANCOCK 1/4" GLOBE #516					
	22	Lubricator Valve (TURRET	1		CRANE 1" ANGLE 1875-E		-1" O.D. COPPER PIPE OUTLET.	STEM TO TAKE #1-HANCOCK UNIV. JOINT.	LOOSE HANDLE.	
	23	" " Extension								
	24	Oil Burner Valves								
	25	" Heater "								
	26	" Tank Blow-Back Valve								
	27	" " ~~Hydrostatic~~ UNIV. JOINT	2		HANCOCK #0		WATER GAUGE TOP COCKS			
	28	~~Oil Cock~~ UNIV. JOINT	1		HANCOCK #3		TURRET MASTER VALVE			
	29	" " ~~Cap~~ " "	2		" #2		INJ. STEAM VALVE			
	30	" " ~~Plug~~ " "	1		" #2		AIR PUMP STEAM			
	31	" " ~~Spring~~ " "	1		" #1		BLOWER VALVE			
	32	" " ~~Washer~~ " "	1		" #1		LUB. ST. LINE			
	33	" " " "	1		" #0		DYNAMO			
	34	Plug Cock—Injector Check								

Check	Item	
		GROU ((
	1	Gaug
	2	"
	3	"
	4	"
	5	"
	6	"
	7	"
	8	WAT.
	9	Gaug
	10	"
	11	WATE
	12	WAT
	13	WAT
	14	"
	15	"
	16	"
	17	"
	18	"
	19	"
	20	"
	21	"
	22	"
	23	"
	24	"
	25	"
	26	"
	27	"
	28	"
	29	"
	30	"
	31	"
	32	"
	33	Water

22	Lubricator Valve (TURRET	1	CRANE / ANGLE	1875-E	- 1" O.D. COPPER PIPE OUTLET	STEM TO TAPE # 1 - HANCOCK UNIV. JOINT LOOSE HANDLE			22	"	" Lo
23	" " Extension								23	"	"
24	Oil Burner Valves								24	"	"
25	" Heater "								25	"	"
26	" Tank Blow-Back Valve								26	"	"
27	" " ~~Union~~ UNIV. JOINT	2	HANCOCK # 0		WATER GAUGE TOP COCKS				27	"	" UPPER
28	~~Oil Cock~~ UNIV. JOINT	1	HANCOCK # 3		TURRET MASTER VALVE				28	"	" LOWER
29	" " ~~Cap~~ " "	2	" # 2		INJ. STEAM VALVE				29	"	"
30	" " ~~Plug~~ " "	1	" # 2		AIR PUMP STEAM				30	"	"
31	" " ~~Spring~~ " "	1	" # 1		BLOWER VALVE				31	"	"
32	" " ~~Washer~~ " "	1	" # 1		LUB. ST. LINE				32	"	"
33	" "	1	" # 0		DYNAMO				33	Water Gauge	
34	Plug Cock—Injector Check								34	Water Gauge	
35	" " Cap								35	"	"
36	" " Plug								36	GROUP 28—COCK RIG	
37	" " Nut								37		
38	" " Washer								38	Blow-off Cock Rigg	
39	POWER REV. CUT OUT COCK	1	WEST # 9 9081						39	" " " Hand	
40	Port Cock								40	" " " Rod	
41	INJ. DEL. DRAIN VALVES	2	HANCOCK 1/4" GLOBE # 516						41	" " "	
42	Siphon Valve								42	CYL. " "	
43									43	" " " Lever	
44	Sprinkler Valve	1	OHIO 1/2" GLOBE # 700-S						44	" " "	
45	" " Cap								45	" "	
46	" " Stem								46	Cylinder Cock Rigg	
47	" " Gland								47	" " ~~Bonnet~~	
48	" " Nut								48	" " Hand	
49									49	" "	
50	SANDER VALVE (LINE)	1	HANCOCK 1/4" GLOBE # 516						50	" " SAF	
51	Steam Gauge Cock	1	"PRIME" SC. 937 STYLE # 4						51	" "	
52	TEST GAUGE COCK	1	"PRIME" S.C. 937 STYLE 2						52	" "	
53	Steam Gauge Cock Extension								53	" "	
54									54	" "	
55	Tire Sprinkler Valve								55	GROUP 30—CROSSH	
56									56	Crosshead	
57	TURRET ELBOW STEAM ~~Through Valve~~ (INJECTOR VALVE)	2	262-L-141	(IN TURRET)		26-565			57	" Shoe	
58	" " ~~Cap~~ (DYNAMO)	1	262-A-141	(" ")		26-280			58	" " Bo	
59	" " Stem (LUBRICATOR)	1	262-M-141	(" ")		26-566			59	" Pin	
60	" " Gland								60	" Key Cha	
61	" " Nut								61	" PIN	

CASTINGS—PATTERN NUMBERS		Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
Brass	Mal. Iron					Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
				GROUP 27—COCKS AND VALVES (GAUGE, WATER AND SPECIAL)		SEE PAGE 30 FOR OTHER DETAILS						
			1	Gauge Cock NATHAN	3	NATHAN DWG. 4693-LINE 1						
			2	" " Valve								
			3	" " Cap								
			4	" " [redacted] BOSS	1	272-A-5023	STEEL 1020					
			5	" " Gland								
			6	" " Nut								
			7	" " NATHAN	2	NATHAN DWG. 4693-LINE 2						
			8	WATER GAUGE ARRGT. L.S.	1-SET	274-A-5000	FURN. PIPE NIPPLE IN BOTTOM COCK					
			9	Gauge Cock Extension								
			10	" " Dripper - ALCO 272-S-1331	1	272-A-385		CSTG. ORD. IN RD. THIS ORDER ONLY	423 LLW			
			11	WATER GAUGE ARRGT. L.S.	1-SET	274-B-5000	FURN. PIPE NIPPLE IN BOTTOM COCK					
JOINT LOOSE HANDLE			12	WATER GAUGE L.S.	1	HANLON BULLS EYE REFLEX NO. 7						
			13	WATER GAUGE L.S.	1	HANLON BULLS EYE REFLEX NO. 6						
			14	" " Upper Fitting	2	272-L-257					27-504	
			15	" " " " Cap	2	273-J-79	STICK BRASS					
			16	" " UPPER & LOWER " [redacted] BONNET	4	272-D-258	STICK BRASS					
			17	" " UPPER " Stem	2	272-D-5020	STICK BRASS					
			18	" " UPPER & LOWER " Gland	4	272-A-258	STICK BRASS					
			19	" " " " Nut	4	273-L-79	STICK BRASS					
			20	" " " " Washer	4	272-B-258	STICK BRASS					
TO TAKE #1-HANCOCK JOINT. LOOSE HANDLE.			21	" " Lower Fitting	2	272-D-257					27-507	
			22	" " " " Cap	2	273-K-79	STICK BRASS					
			23	" " " " [redacted] NIPPLE	2	272-C-5020	" "					
			24	" " " " Stem	2	272-N-258	" "					
			25	" " " " [redacted] ADAPTER	2	272-A-5020	" "					
			26	" " " " Nut	2	272-B-5020	" "					
			27	" " UPPER & LOWER " [redacted] PLUGS	8	272-C-258	" "					
			28	" " UPPER " [redacted] ADAPTER	2	273-H-79	" "					
			29	" " " " [redacted] SWIVEL	4	273-A-79	BRAZING METAL					
			30	" " [redacted] " NUT	4	273-B-79	STICK BRASS					
			31	" " " " [redacted] ADAPTER	2	272-M-260	" 1020 "					
			32	" " [redacted] BOSS	2	272-D-162	STEEL					
			33	Water Gauge [redacted] MARKER	1	273-B-5006					WHITE METAL 27-556	
			34	Water Gauge [redacted] BRKT.	1	273-A-5006	STEEL BAR 4" DIMENSION 2 1/16 DIA.	273-A-5006				
			35	" "								

24	" " " " Stem	2	272-H-258	" "							
25	" " " " ADAPTER [redacted]	2	272-A-5020	" "							
26	" " " " Nut	2	272-B-5020	" "							
27	" " UPPER & LOWER " " PLUGS [redacted]	8	272-C-258	" "							
28	" " UPPER [redacted] ADAPTER	2	273-H-79	" "							
29	" " [redacted] " " SWIVEL	4	273-A-79	BRAZING METAL							
30	" " [redacted] " " NUT	4	273-B-79	STICK BRASS							
31	" " " " ADAPTER [redacted]	2	272-M-260	" 1020 "							
32	" " " BOSS	2	272-D-162	STEEL							
33	Water Gauge [redacted] MARKER	1	273-B-5006							WHITE METAL 27-556	
34	Water Gauge [redacted] " BRK'T.	1	273-A-5006	STEEL BAR "A" DIMENSION 2 1/16" DIA.	273-A-5006						
35	" " " HANDLES	4	262-A-93								
36	GROUP 28—COCK RIGGING		CONTINUED ON PAGE 15 (CYL. COCK RIGGING)								
37											
38	Blow-off Cock Rigging	1-SET	283-A-5005								
39	" " " Handle	1	282-C-368		282-C-368						
40	" " " Rod PIN	1	282-D-139	FURN. COTTER							
41	" " " "										
42	CYL. " " " LEVER GUIDE [redacted]	1	282-A-5038	FURN. COMPLETE	282-A-5038						
43	" " " Lever LINK	1	282-C-5038	C.R. STEEL	282-C-5037						
44	" " " " [redacted] CONNECTION	3	282-B-5037	" "	282-B-5037						
45	" " " "	3	282-A-5037	" "	282-A-5037						
46	Cylinder Cock Rigging	1-SET	288-A-5000	APPLY CHAIN FOR LOCK PIN.							
47	" " [redacted] SHAFT	1	288-A-5000	C.R. STEEL							
48	" " Hand Lever	1	282-B-5011	STEEL	282-B-5011						
49	" " " " Fulcrum	1	282-A-5040	WELDED CONSTR.	282-A-5040						
50	" " [redacted] SHAFT LUGS	3	282-D-5038	WELDED TO CYL. FRAME & DRILLED	282-D-5038						
51	" " " Lever	1	282-B-5039	APPLY SET SCREW						28-1	
52	" " " [redacted] "	3	282-A-5039	APPLY SET SCREW						28-124	
53	" " [redacted] " BRK'T.	1	282-B-5038	PLATE	282-B-5038						
54	" " " [redacted] COLLAR	1	282-C-5038	C.R.S. APPLY SET SCREW							
55	GROUP 30—CROSSHEAD										
56	Crosshead	3	303-B-5003						30-191		
57	" Shoe	6	302-A-5007							30-192	
58	" " Bolts	24	303-B-5003	FURNISH NUTS							
59	" Pin	3	303-B-5003		4 1/8" DIA. X 10" LONG FIN. SIZES						
60	" Key (CHROME VANADIUM)	3	302-A-5014		302-A-5014						
61	" PIN NUTS	6	303-B-5003	4 1/4" HEX. ACROSS FLATS X 3/4" THICK. FIN SIZES (MED. CAR. STEEL)							

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 31—CYLINDER								
	1	CYLINDER (FIT UP 1 LEFT " " 2 RIGHT)	3	317-A-5009			31-315			
	2	" CLEARANCE	1-SET	314-A-5031						
	3	" Frame	1	314-A-5030		WELD CYL. COCK SHAFT LUG ON.		31-314		
	4	" "	2	314-B-5030		" " "		31-314		
	5	GROUP 32—CYLINDER DETAILS								
	6	Cylinder Head	3	323-B-5000			32-225			
	7	" " Casing	3	" "	PLATE					
	8									
	9									
	10	Steam Chest Cover TOP	3	322-A-5084			32-745			
	11	" " Casing								
	12	Valve Chamber Head TOP								
	13	" " " BOTTOM	3	322-A-5086			32-747			
	14	" " Cover								
	15	" " Bushing	6	322-A-5085			32-746			
	16									
	17									
	18	GROUP 34—CYL BY-PASS & RELIEF VAL								
	19	Steam Chest Relief Valve								
	20	" " " " Base								
	21	" " " " Cap								
	22									
	23									
	24									
	25									
	26	GROUP 35—DIE WORK								
	27									
	28									
	29									
	30									
	31									
	32									
	33	GROUP 36—DOME								
	34	Dome								

Check	Item	
		GROUP 37—DR
	1	Drawhead
	2	" CA
	3	" "
	4	" "
	5	" "
	6	" "
	7	" " Sh
	8	" " Pir
	9	" " Fra
	10	" "
	11	" "
	12	" "
	13	" " Tie
	14	" "
	15	" " Sli
	16	" "
	17	" " Cor
	18	" "
	19	" " Yok
	20	" " "
	21	" " "
	22	" " "
	23	" " "
	24	" " Car
	25	" "
	26	" BAR G
	27	" Bar Guid
	28	" " Pin
	29	" " Carr
	30	" " "
	31	" Pin—Fro
	32	" "—Bac
	33	Shackle Bar

24												24	" " Carrier Iron
25												25	" " " Pin
26	GROUP 35—DIE WORK											26	" BAR GUIDE
27												27	" Bar Guide
28												28	" " Pin (REAR)
29												29	" " Carry Iron
30												30	" " " " Bolt
31												31	" Pin—Front & Back
32												32	" " —Back
33	GROUP 36—DOME											33	Shackle Bar
34	Dome	1	130-B-5002									34	" " Key
35	" Flange	1	362-H-5001									35	" " Gibs
36	" " Radius		40"									36	" " Brace
37	" Cap	1	362-C-5011									37	" " " Pad
38	" Ring	1	362-A-5010									38	" " " Pin
39	" Casing—~~Base~~ COMPLETE	1	363-B-5012		(FURN. COVER PLATES ETC.							39	" " Pin
40	" " —~~Shell~~ STUD	1	TO SUIT	STEEL								40	Safety Link
41	" " —Top											41	" " Pins (FRONT)
42	" Flow Bowl											42	" " " KEYS
43	" " " Bracket											43	GROUP 39—ECCENTRICS
44	UNCOUPLING SHAFT BRACKET-REAR	1	214-A-5038		37-A-5008							44	ECCENTRIC—No. 1 Cylinder
45	" " " -FRONT	1	214-A-5037		37-A-5008							45	" No. 3 Cylinder
46	DRAFT GEAR. MINER	2 SET	MINOR PT. 18009		MINER-A-22-XB							46	" No. 2 Cylinder
47	GROUP 37—DRAWGEAR F & B											47	" No. 2 Cylinder
48	Coupler F. ENGINE	1	N.M.&SC CO. PT 24532-J		AAR. STD. TYPE "E" 6"X8" SHANK. TOP OPERATING							48	" Key
49	" B. TENDER	1	" "		" " " " " " " "							49	" Stud
50	" Knuckles											50	ECCENTRIC STRAP Top
51	" "											51	" " Bolts
52	" Lock											52	" " Bolts
53	" " Lifter FRONT BACK	2-SETS	N.M.C. DWG. 12318-E SET-A-1470									53	" " Liners
54	" Link											54	" " Fillers
55	UNCOUPLING SHAFT WASHERS FRONT REAR	4	214-A-5037	STEEL WELD ON SHAFT								55	" " LINERS #1 CYL.
56	Uncoupling Shaft (FRONT)	1	372-A-5090		372-A-5098							56	ECCENTRIC ROD #1 MOTION
57	" " (REAR)	1	372-A-5098		372-A-5098							57	" " #1 CYL. MOTION
58	" " Bracket (REAR)	1	214-A-5038		37-A-5007							58	" " Pin
59	" " " (")	1	214-A-5038		37-B-5007							59	" " #2 & 3 CYL. FORWARD
60	~~Buffer~~ " " (FRONT)	1	214-A-5037		37-A-5007							60	" " Bolts #2 & 3
61	" " " (")	1	214-A-5037		37-B-5007							61	" " BACKWARD

CASTINGS—PATTERN NUMBERS		Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
Brass	Mal. Iron					Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
				GROUP 37—DRAWGEAR (Cont.)								
			1	Drawhead	2	373-A-5026	SENT 1-12-5-46, R.17424			37-355-A		
			2	" CARRIER - FRONT	1	214-A-5037		104-F-66				
			3	" " " " - REAR	1	214-A-5038		104-F-66				
			4	" " " Foot								
			5	" " " Foot								
			6	" " [redacted] BLOCK-(FOLLOWER)	2	214-A-5037	PLATE	2¼"X9"X12½"				
			7	" " Shims (COUPLER YOKE)	2	214-A-5037	BAR	1"X5"X9"				
			8	" " Pin								
			9	" " Frame—Front COMPLETE	1	373-A-5025		WELDED CONSTRUCTION				
			10	" " " " TIE PLATE	1	" "		DETAIL "X"				
			11	" " " —Rear								
			12	" " " "								
			13	" " Tie Plate - REAR	1	214-A-5038	PLATE					
			14	" " " ANGLES - REAR	2	214-A-5038	ANGLES	WELD TO TENDER FRAME				
			15	" " Sliding Bar								
			16	" " " "								
			17	" " Connecting Rod								
			18	" " " " Pin								
			19	" " Yoke - FRONT	1	214-A-5037		460-S-120				
			20	" " " [redacted] - REAR	1	214-A-5038		460-S-120				
			21	" " " Followers								
			22	" " " "								
			23	" " " Binder Plate								
			24	" " Carrier Link								
			25	" " " Pin								
			26	" BAR GUIDE [redacted] ENG.	1	372-B-5097				37-302		
			27	" Bar Guide TENDER	1	372-A-5097				37-302		
			28	" " Pin (REAR OF COAL BUNK)	1	372-B-5070	STEEL	372-B-5070				
			29	" " Carry Iron								
			30	" " " " " Bolt Liner								
			31	" Pin—Front & BACK	2	372-L-147		372-L-147				
			32	" " —Back								
			33	Shackle Bar								

		24	" " Carrier Link									
		25	" " " " Pin									
		26	" BAR GUIDE [redacted] ENG	1	372-B-5097					37-302		
		27	" Bar Guide TENDER	1	372-A-5097					37-302		
		28	" " Pin (REAR OF COAL BUNK)	1	372-B-5070	STEEL	372-B-5070					
		29	" " " Carry Iron									
		30	" " " " " Bolt Liner									
		31	" Pin—Front & BACK	2	372-L-147		372-L-147					
		32	" " —Back									
		33	Shackle Bar									
		34	" " Key									
		35	" " Gibs									
		36	" " Brace									
		37	" " " Pad									
		38	" " " Pin									
		39	" " Pin									
		40	Safety Link	1	372-A-5082	STEEL	372-A-5082					
		41	" " Pins (FRONT WATER TANK)	1	372-A-5083	STEEL	372-A-5083					
		42	" " " KEYS	1	372-A-5083	BAR STEEL						
		43	GROUP 39—ECCENTRICS									
		44	ECCENTRIC—No. 1 Cylinder	1	392-A-5109				39-527			
		45	" No. 3 Cylinder	1	392-A-5109				39-527			
		46	" No. 2 Cylinder—Top	1	392-A-5108				39-529			
		47	" No. 2 Cylinder—Bot.	1	392-A-5108				39-530			
OPERATING		48	" Key	2	" "	TOOL STEEL						
"		49	" Stud	2	" "	STEEL						
		50	ECCENTRIC STRAP Top	6	392-A-5110					39-368-A		
		51	" " Bottom	6	" "					39-121		
		52	" " Bolts	12	" "	STEEL	FUR. NUTS & COTTERS					
		53	" " Liner	6 PAIR	" "	H.S. GUN IRON						
		54	" " Filler SHIMS	48	" "	#22 STEEL						
		55	" " LINER MAT. ORDER		39-MO-5000	TUBS	2-TUBS REQ'D.		TO PAT. 39-456 H.S. GUN IRON			
		56	ECCENTRIC ROD #1 CYL. FORWARD MOTION	1	392-A-5113	STEEL	392-A-5113					
		57	" " #1 CYL. BACKWARD MOTION	1	392-A-5115	STEEL	392-A-5115					
		58	" " Pin	6	392-A-5111	STEEL	FURNISH NUTS, DOWELS, COTTERS, ETC.					
		59	" " #2 & 3 CYL. FORWARD MOTION	2	392-A-5112	STEEL	392-A-5112					
		60	" " Bolts		SEE BOLT LIST.							
		61	" " #2 & 3 CYL. BACKWARD MOTION	2	392-A-5114	STEEL	392-A-5114					

LED 60-10

LED 60-11

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 42—ERECTING CARDS BACK HEAD ARR'GT	1-SET	428-A-5065						
	1	ERECTING PLAN—Elevation	1-SET	420-A-5014						
	2	GROUP 43—ERECTING CARDS								
	3	ERECTING PLAN—Sections	1-SET	430-A-5000	w/ liner	9"-24				
	4	EXHAUST PIPE DROP PIPE GASKET	1	442-A-5112	COPPER					
	5	GROUP 44—EXHAUST PIPE & NOZZLES								
	6	EXHAUST Drop Pipe	1	444-A-5000	FURNISH LINER SLIP JOINT & DROP PIPE		44-827			
	7	" PIPE JOINT RING	1	792-P-111			79-103			
	8	" Nozzle	1	443-A-5006			44-833			
	9	" PIPE	1	" "			44-832			
	10	" " GASKET	1	442-A-5110	JOHNS-MANVILLE					
	11	" BLOWER RING AND BRKTS.	1-SET	442-A-5113	FURNISH COMPLETE WITH 3-SUPPORTS					
	12	" [redacted] FLANGE	3	442-A-5108			44-826			
	13	" [redacted] PIPE MANIFOLD	1	447-A-5000	FRONT SECTION			44-830		
	14	" [redacted] " "	1	" "	CENTER SECTION			44-829		
	15	" SLIP JOINT Gland	1	442-A-5111			44-834			
	16	" Pipe [redacted] SLIP JOINT	1	" "			44-835			
	17	" " Joint Ring	1	792-S-114	EXH. MANIFOLD & PIPE FLANGE		79-957			
	18	" SLIP JOINT PACKING	SET	442-A-5111	3" DIA. ASBESTOS 4 ROPE PACKING					
	19	" PIPE [redacted] MANIFOLD	1	447-A-5000	REAR SECTION			44-828		
	20	GROUP 45—FIREDOOR AND FIREBRICK								
	21	FIRE BRICK	1 SET	454-A-5001						
	22	" " Arch Tube	3	" "						
	23	" " " " Setting		" "						
	24									
	25	FIRE DOOR (BUTTERFLY NO-8-A)	1	F.R.S.CO. PT. C-12710-J-LINE #1						
	26	" " Frame	1	F.R.S.C. PT. D-11993-J-LINE #1						
	27	" " Liner								
	28	" " Latch								
	29	" " " Handle								
	30	" " " Guide								
	31	" " Shield								
	32	" " Damper								
	33	" " " " Bearing								
	34	" " " " "								

Check	Item	
		GROUP 48—FR
	1	Truss Rod End
	2	" " "
	3	" " "
	4	" " "
	5	" " Col
	6	" "
	7	" Post Gu
	8	" " "
	9	Frame Brace
	10	" "
	11	" "
	12	" " S
	13	" "
	14	" "
	15	Frame Pit Iro
	16	" "
	17	" "
	18	" "
	19	" End C
	20	" " T
	21	" Angle
	22	" "
	23	" "
	24	" "
	25	" "
	26	" SMOKE
	27	" Smoke
	28	EXPANSION
	29	"
	30	FURNACE B
	31	"
	32	"
	33	"
	34	Boiler Pad
	35	" "

24												24	" "
25	FIRE DOOR (BUTTERFLY NO-8-A)	1	F.R.S.CO. PT. C-12710-J LINE #1									25	" "
26	" " Frame	1	F.R.S.C. PT. D-11993-J LINE #1									26	" SMOKE BOX S
27	" " Liner											27	" Smoke Box Br
28	" " Latch											28	EXPANSION PLATE
29	" " " Handle											29	" "
30	" " " Guide											30	FURNACE BEARE
31	" " Shield											31	" "
32	" " Damper											32	" "
33	" " " Bearing											33	" "
34	" " " "											34	Boiler Pad—Right
35	" " " Handle											35	" " —Left
36	EXHAUST MANIFOLD JOINT RING	1	792-C-105	#3 CYL.		79-113						36	
37	" " " "	2	792-R-105	#1 & 2 CYL.		79-113						37	
38	EXHAUST PIPE (CYLINDER)	1	443-A-5007	10" ST. WT. PIPE								38	GROUP 49—GAUGES, TP
39	" " FLANGE (" REAR END)	1	442-A-5109				44-831					39	
40	FRAME END CASTING PLATE	1	483-A-5071				48-711-B					40	
41	GROUP 48—FRAME AND DETAILS											41	
42	FRAME - COMPLETE	1-SET	480-A-5000	BUILT UP GIRDER TYPE MATL.		(FURN. ANGLES, FILLERS & BOLSTER LINERS ALSO GUSSET PLATES)						42	GROUP 50—GUIDES &
43	" Boiler Saddle RIGHT	1	482-A-5085			48-648						43	Guide (MACHINE R
44	" " " LEFT	1	" "			48-651						44	
45	" " FABRICATED ANGLE	1-R 1-L	482-A-5217	WELDED CONSTR.	482-A-5217							45	
46	" MATERIAL ORDER	1 SET	48-MO-5005									46	GROUP 51—GRATE AR
47	" "RIVET" MATERIAL	1 SET	48-MO-5006									47	Grate Arrangement
48	" CENTER PLATE FRONT	1	483-A-5072				48-722					48	GROUP 52—GRATE DE
49	" Bolster Fill Blocks											49	
50	" Centre Plate - REAR	1	483-B-5072				48-722					50	GRATE LEVER FU
51	" Side Bearing—	2-R 2-L	480-A-5000	BAR STEEL	1/4"X6"X20"LG.							51	Grate Bars
52	" " " —Left											52	" "
53	" JACKING BRKT.	1-R 1-L	480-A-5000		48-E-5047							53	" " CENTER
54	" Truss Pad											54	" Center Rail
55	" " "											55	" Side "
56	" " Head											56	" " "
57	" " Post Head											57	" CROSS BR
58	" " " Socket											58	" " "
59	" " Rod Washers											59	" Shaker Pins
60	Main Truss Rod—Right											60	" " "
61	" " " —Left											61	" " "

Frame braces applyed to ed. 487 A 5035 12/10/45

TINGS—PATTERN NUMBERS		Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
Brass	Mal. Iron					Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
				GROUP 48—FRAME & DETAILS (Cont.)								
			1	Truss Rod Ends								
			2	" " "								
			3	" " "								
			4	" " "								
			5	" " Columns								
			6	" " "								
			7	" Post Guides								
			8	" " "								
			9	Frame Brace	1	480-A-5000		48-J-5046				
			10	" "	1	480-A-5000		1"X6"X73" LONG				
			11	" "								
			12	" " SEE DRAWING 488A5073 FOR FRAME REINFORCEMENT APPLIED AFTER ENGINE WAS SHIPPED, R.16692 10-16-46.								
			13	" "								
			14	" "								
			15	Frame Pit Irons								
			16	" " "								
			17	" " "								
			18	" " "								
			19	" End Casting								
			20	" " Timber Brace	1	480-A-5000		48-S-5004				
			21	" Angle								
			22	" "								
			23	" "								
			24	" "								
			25	" "								
			26	" SMOKE BOX BRACE PIN.	2	752-C-5104	STEEL	FURNISH BOLT & NUT.				
			27	" Smoke Box Brace Pad	2	482-A-5215			48-718			
			28	EXPANSION PLATE								
			29	" " " Angle								
			30	FURNACE BEARER—Front	1	483-A-5070				48-720		
			31	" " —Rear	1	483-A-5069				48-719		
			32	" " Plate	1	482-A-5216	PLATE					
			33	" " Fill Blocks (F)	2	482-B-5134	"			48-687		

24	" "											
25	" "											
26	" SMOKE BOX BRACE PIN	2	752-C-5104	STEEL		FURNISH BOLT / NUT						
27	" Smoke Box Brace Pad	2	482-A-5215				48-718					
28	EXPANSION PLATE											
29	" " Angle											
30	FURNACE BEARER—Front	1	483-A-5070					48-720				
31	" " —Rear	1	483-A-5069					48-719				
32	" " Plate	1	482-A-5216	PLATE								
33	" " Fill Blocks (F)	2	482-B-5134					48-687				
34	Boiler Pad—Right											
35	" " —Left											
36												
37												
38	GROUP 49—GAUGES, TEMPLATES & JIGS											
39												
40												
41												
42	GROUP 50—GUIDES & ATTACHMENTS											
43	Guide (MACHINE R & L IN SETS)	6	502-A-5033				50-3					
44												
45												
46	GROUP 51—GRATE ARRANGEMENT											
47	Grate Arrangement	1-SET	517-A-5002	FURN. FILLERS & CHIP SIDE FRAMES TO SUIT.								
48	GROUP 52—GRATE DETAILS											
49												
50	GRATE LEVER FULCRUM	2	523-A-5003					52-2139				
51	Grate Bars	24	522-A-5031				52-21					
52	" "											
53	" " CENTER RAIL SUPPORT	2	522-A-5023				52-530					
54	" Center Rail	1	522-A-5021	FUTURE ½" LINERS APPLIED			52-1344					
55	" Side " (FIT UP R & L)	2	522-B-5022 522-A-5022	R & L CO-510			52-1345					
56	" " "											
57	" CROSS BRACE [redacted]	1	522-A-5028				52-531					
58	" " " SUPPORT	2	522-A-5154			522-A-5154						
59	" Shaker Pins	8	522-L-1125			522-L-1125						
60	" " "											
61	" " "											

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS				Check	Item	
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron			
		GROUP 52—GRATE DETAILS (Cont.)											GR(
	1	Grate Dead Plate	4	522-A-5029			52-1348					1	
	2	" " "										2	"
	3	" Drop "										3	He
	4	" Dump Shaft										4	He
	5	" " " Bearing										5	
	6	" " " "										6	
	7	" " " Links										7	
	8	" " " Lever										8	Ge
	9	" " Lever										9	
	10	" Shaker Shaft Bracket LATCH	2-FT.	522-A-1272				52-2140				10	Lar
	11	" " " " LATCH	2-BK.	522-B-1272				52-2141				11	"
	12	" " Lever	4	522-A-5153		522-A-5153						12	"
	13	" " [illegible] HANDLE	1	522-A-1153				52-2056				13	"
	14	" " " LATCH PIN	4	522-B-1271		522-B-1271						14	Nu
	15	" " " [illegible] PIN	2	522-A-1271		522-A-1271						15	
	16	" " " "										16	Bu
	17	" " " Hand Lever										17	Na
	18	" " " " "										18	Pat
	19	" " Lever Connection BK.	2	522-A-5155		522-A-5155						19	Pr
	20	" " " " FT.	2	522-B-5155		522-B-5155						20	Su
	21	" " Connection Bar	4	522-A-5152	BAR STEEL	522-A-5152						21	Ele
	22	" " " " LUG	4	522-A-5152	PLATE	522-A-5152						22	HE
	23	GROUP 53—H'NDRAIL & STEPS (En.&Tr)	CONT. ON PAGE 29									23	
	24	HAND RAIL - R.S.	1-SET	SEE ERECT CD.	1¼" DIA. STEEL ROD		(DRILL & FURN. PINS BEND & SET TO SUIT					24	GR
	25	" " [illegible] L.S.	1-SET	SEE ERECT CD.	1" CONDUIT PIPE		" " "					25	Inj
	26	" " [illegible] TEE - R.S.	6	532-A-877				53-866				26	
	27	" " [illegible] FLANGE-R.S.	2	532-B-484				53-641				27	
	28	" " " " -LS	1	532-A-484				53-641				28	
	29	" " " COUPLING - R.S.	1	532-B-947	PIPE							29	"
	30	" " " FLANGE R.S.	1	532-A-484				53-641				30	Inj
	31	" " " Blocks										31	
	32	" " " " HEADLIGHT GRAB HANDLE	1	532-A-5106		532-A-5106						32	
	33	" " Flanges, - R.S.	6	532-A-878				53-867				33	
	34	Cab LADDER ARRGT. [illegible] - L.S.	1-SET	534-A-5000	FURN. FILLER BLOCKS							34	

24	HAND RAIL - R.S.	1-SET	SEE ERECT CD.	1" DIA. STEEL ROD		(DRILL & FURN. PINS BEND & SET TO SUIT)						23	
25	" " [redacted] L.S.	1-SET	SEE ERECT CD	1" CONDUIT PIPE		" " " "						24	GROUP 55—INJECT
26	" " [redacted] TEE - R.S.	6	532-A-877				53-866					25	Injectors CLA
27	" " [redacted] FLANGE-RS.	2	532-B-484				53-641					26	" Brackets
28	" " " " -LS	1	532-A-484				53-641					27	" STAYING
29	" " " COUPLING - R.S.	1	532-B-947	PIPE								28	" "
30	" " " FLANGE R.S.	1	532-A-484				53-641					29	" "
31	" " " Blocks											30	Injector Check V
32	" " " HEADLIGHT GRAB HANDLE	1	532-A-5106		532-A-5106							31	" [redacted]
33	" " Flanges - R.S.	6	532-A-878				53-867					32	" [redacted]
34	Cab LADDER ARRGT. - L.S.	1-SET	534-A-5000	FURN. FILLER BLOCKS								33	INJECTOR [redacted]
35	" " [redacted] - R.S.	1-SET	534-B-5000									34	" " Brackets
36	CAB [redacted] Handle—Right	2	534-B-5000	1" EXH. HVY. PIPE MATL		(APPLY PIPE CAPS & RIVETS AT ASSEMBLY)						35	" " "
37	" " " —Left	2	534-A-5000	" " "								36	" Pipe Hanger
38	END TIMBER [redacted] GRAB HANDLE-FRONT	2	214-A-5037		103-F-171							37	" Hose Connec
39	End Timber Handle REAR	1	214-A-5038	TENDER	53-A-5007							38	" "
40	" " " FRONT	1	214-A-5037	ENG.	53-A-5007							39	" "
41	" " " Bracket REAR	1	214-A-5038	TENDER	53-A-5008							40	" " "
42	" " " " FRONT	1	214-A-5037	ENG.	53-A-5008							41	INJ. WATER VA
43	CAB HANDLE - L.S. ROOF	1	532-A-5094		532-A-5094							42	FEED HOSES
44	SAND BOX HANDLE	2	732-D-143		732-D-143							43	
45	Bottom Bracket Step	4	532-A-5097		532-A-5097							44	GROUP 57—LAGG
46	Cab LADDER FRAME R.S.	1	532-A-5098		532-A-5098							45	Lagging (Boiler)
47	" " STEPS R.S.	1-SET	532-A-5098		532-A-5098		SPOT WELD TREADS					46	" [redacted]
48	" " FRAME L.S.	1	532-A-5099		532-A-5099							47	" "
49	" " STEPS L.S.	1-SET	532-A-5099		532-A-5099		SPOT WELD TREADS					48	" "
50	" " Brace L.S.	1	532-A-5100		532-A-5100							49	" [redacted]
51	" " " R.S.	1	532-A-5101		532-A-5101							50	" "
52	" " [redacted] R.S.	1	532-B-5101		532-B-5101							51	Jacket (Boiler)
53	END TIMBER STEP [redacted] BRACE - ENG.	1-R 1-L	214-A-5037	BAR STEEL								52	" [redacted]
54	" " " " - TENDER	2	214-A-5038	BAR STEEL								53	PIPE COVERING
55	End Timber Step—Front ENG.	1-R 1-L	214-A-5037	WOOD TREAD								54	PLUG, CASING
56	" " " (Back) TENDER	1-R 1-L	214-A-5038	WOOD TREAD								55	" " PLUG COVER
57	" " " BRKTS - ENG.	4	214-A-5037		53-B-5006							56	Plug Casing
58	" " " " - TENDER	4	214-A-5038		53-B-5006							57	" "
59	SAND BOX STEP	2	532-A-279			53-14						58	" Cover
60	Sand Box Step BRACKET	1	732-A-5042		732-A-5042							59	Cylinder Lagging
61	" " " Bracket	1	732-B-5042		732-B-5042							60	" Jacket
												61	BOILER " CHECK VA [redacted]

CASTINGS—PATTERN NUMBERS		Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
Brass	Mal. Iron					Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
				GROUP 54—HEADLIGHTS, LAMPS, PLATES, ETC.		SEE PAGE 29	FOR OTHER DETAILS					
			1	[redacted] ELECTRICAL M.O.	1-SET	54-MO-5009						
			2	" " ELECTRIC WIRING	1-SET	543-A-5001	FURN. WASHERS NUTS, BOLTS ETC.					
			3	Headlight {[redacted] Electric} 12-C-640	2	PYLE NATIONAL PT. 206640						
			4	Headlight Bracket	1	542-A-5032		542-A-5032				
			5	" Columns								
			6	" Shelf—Front								
			7	" " —Rear								
			8	Generator Bracket	1	542-A-5033	PLATE	542-A-5033				
			9	" [redacted] " WASHERS (2½")	4	532-B-272			53-111			
			10	Lamp								
			11	"								
			12	" Bracket STUDS	4	542-A-231	STEEL-FURN. NUTS & LOCK WASHERS					
			13	" "								
			14	Number Plate	1	542-B-5009	APPLY ROAD NO. PER SPECIFICATION		54-6			
			15	" " Stud	1	A-12969	STEEL FURNISH NUT					
			16	Builder's Card	2	543-A-181			54-864			
			17	Name Plate LOCATE ON SIDE OF CAB R&L TO SUIT	2	B-11138			54-4			
			18	Patent Plate	1	542-A-5031			54-871			
			19	Property Plate								
			20	Superheater Patent Plate	1		FURN. BY SUPT'R. CO.	(SEE ELEVATION FOR LOCATION)				
			21	Electrical Equipment								
			22	HEADLIGHT TURBO-GENERATOR	1	PYLE NAT. #11-F-400-C	PN K-240					
			23									
			24	GROUP 55—INJECTORS & FEED, WATER								
			25	Injectors CLASS "N" LIFTING TYPE 10½ SIZE	1R 1L	SELLER PT. #31222						
			26	" Bracket L.S.	1	552-A-5019	BAR STEEL	552-A-5019				
			27	" STARTING LEVER	2	SELLERS 10-832-B						
			28	" " " HANDLE	2	SELLERS 10-858-A						
			29	" " " UNIV. JOINTS	2 SETS	SELLERS 10-661-A						
			30	Injector Check Valve STYLE-K-2"	2	SELLERS PT. # 40553						
			31	" [redacted] CONTROL ROD	2	⅜" I.P. LENGTH TO SUIT ERECT. SHOP - APPLY PIN & HANDLE - FURNISHED WITH INJ.						
			32	" [redacted] " JAW	2	732-K-28		732-K-28				
			33	[redacted] INJECTOR BRACKET R.S.	1	552-A-5020	STEEL PLATE	552-A-5020				
			34	" " Bracket								
			35	" " " Cap								

24	GROUP 55—INJECTORS & FEED, WATER												
25	Injectors CLASS N "LIFTING TYPE" 10½ SIZE	1R 1L	SELLER PT. #31222										
26	" Bracket L.S.	1	552-A-5019	BAR STEEL	552-A-5019								
27	" STARTING LEVER	2	SELLERS 10-832-B										
28	" " " HANDLE	2	SELLERS 10-858-A										
29	" " " UNIV. JOINTS	2 SETS	SELLERS 10-661-A										
30	Injector Check Valve STYLE-K-2"	2	SELLERS PT. # 40553										
31	" [redacted] CONTROL ROD	2	⅜" I.P. LENGTH TO SUIT ERECT SHOP - APPLY PIN & HANDLE - FURNISHED WITH INJ.										
32	" [redacted] " JAW	2	732-K-28		732-K-28								
33	[redacted] INJECTOR BRACKET R.S.	1	552-A-5020	STEEL PLATE	552-A-5020								
34	" " Bracket												
35	" " " Cap												
36	" Pipe Hanger												
37	" Hose Connection	4	553-A-5001			55-68							
38	" " " Nuts	4	553-A-5001					55-69					
39	" " " "												
40	" " " Nipples	4	553-A-5001					55-70					
41	INJ. WATER VALVE ROD EXT.	2-SET	STEEL ROD	MACH. ENDS & LENGTH TO SUIT IN ERECT. SHOP.									
42	FEED HOSES	2	2½" X 54"										
43													
44	GROUP 57—LAGGING & JACKET												
45	Lagging (Boiler)	1 SET	572-A-5020										
46	" JACKET [redacted] CLAMP	8	572-B-68					57-113					
47	" " "	32	572-C-86					57-99					
48	" " "	44	572-C-69					57-49					
49	" [redacted] STUDS	22	⅜" DIA. X 5" LONG - THREADED - STEEL										
50	" " " " STUDS	16	⅜" DIA. X 8" LONG - THREADED - STEEL										
51	Jacket (Boiler)	1 SET	APPLY TO SUIT IN ERECT SHOP	# 20 JACKET IRON									
52	" [redacted] NUTS - BK. HEAD	20	322-J-112	STEEL									
53	PIPE COVERING " [redacted] M.D.	1-SET	57-MO-5037										
54	PLUG, CASING [redacted] EXTENSION ARR'G'T.	15	572-A-222										
55	PLUG COVER (ARCH TUBE)	3	572-P-58										
56	Plug Casing (PLUGS "X")	12	572-B-248	PRESSED STEEL									
57	" " (ARCH TUBE)	3	572-A-248	"									
58	" Cover (PLUGS "X")	10	572-H-58										
59	Cylinder Lagging	1 SET	APPLY TO SUIT IN ERECT SHOP	USE BOILER SCRAP # 20 JACKET IRON									
60	" Jacket	1 SET	" " "										
61	BOILER CHECK JACKET FLANGE [redacted]	2	" " "	#16 JACKET IRON									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron	Check	Item
	0	GROUP 58—LINK MOTION PLAN VIEW OF MOTION WORK	1-SET	583-A-5008								
	1	Link	3	583-A-5007	FURNISH BUSHING			58-467				1
	2	" —Top Half										2
	3	" —Bottom Half										3
	4	" Saddle (PIN)	3	582-A-5047	FUR. NUTS	MED. CAR. STEEL 582-A-5047						4
	5	" " WASHER	3	" "	1/4" X 3" DIA. FIN. SIZES	MED. CARBON STEEL						5
	6	" " "										6
	7	" Block	3	582-A-5048	FURNISH BUSHINGS	582-A-5048						7
	8	" " Pin	3	582-A-5045	FURNISH NUTS & COTTERS PIN. STEEL CASE HARDENED							8
	9	" " Plates	3	582-A-5046		582-A-5046						9
	10	" " "	3	582-B-5046		582-B-5046						10
	11	" Hanger	2R 2L	582-A-5049	FURN. BUSHINGS	582-A-5049						11
	12	" " Pin	3	582-A-5050	FURNISH DOWELS NUTS & COTTERS	STEEL		AAR HARD BRONZE BUSHING				12
	13	MANZELL - 3 FEED - FORCE FEED OIL LUB.	1	MANZELL-25-D 6½ PINT		(STEAM CHEST LUBRICATION)						13
	14	GROUP 59—OIL CUPS & LUBRICATION		CONTINUED ON PAGE 15								14
	15	Lubricator - 4 FEED, FOUR PINT	1	NATHAN PT. # 1355		HYDROSTATIC SIGHT FEED						15
	16	" Bracket										16
	17	MANZELL - 10 FEED. FORCE FEED OIL LUB.	1	MANZELL-25-D 13½ PINT		(GUIDES & CRANK PIN BEARINGS)						17
	18	Bottom Bracket Oil Cup										18
	19	" " " " Cap										19
	20	" " " " Nut										20
	21	" " " " Plug										21
	22	" " " " Cover										22
	23	" " " " "										23
	24	" " " " Hinge Lugs										24
	25	" " " " " "										25
	26	" " Grease Cup	4	592-A-5007			59-50					26
	27	" " " " Cap	4	" "			59-52					27
	28	" " " " Nut	4	" "			59-51					28
	29	" " " " Plug										29
	30	Crosshead Oil Cup POWEL PT. # E-2016	3	# 4 SPRING TOP		(POWELL 3/8" I.P. THD. SHANK STRAIGHT TYPE)						30
	31	" " " Cap										31
	32	" " " Nut										32
	33	Ecc. Strap Oil Cup POWEL PT. E-2016	6	# 4 SPRING POWEL TOP		3/8" I.P. THREADED SHANK STRAIGHT TYPE						33
	34	" " GREASE CUP	6	LONKENHEIMER # 2-TIGER								34
	35	" " " " Nut		PRIME ALEMITE								35
		POWER REVERSE GEAR										

22	" " " " Cover											23	" "
23	" " " " "											24	" "
24	" " " " Hinge Lugs											25	" "
25	" " " " " "											26	" "
26	" " Grease Cup	4	592-A-5007				59-50					27	" "
27	" " " " Cap	4	" "				59-52					28	" "
28	" " " " Nut	4	" "				59-51					29	" "
29	" " " " Plug											30	" "
30	Crosshead Oil Cup POWEL PT. # E-2016	3	#4 SPRING TOP		(POWELL 3/8" I.P. THD. SHANK STRAIGHT TYPE)							31	" "
31	" " " Cap											32	" "
32	" " " Nut		#4 SPRING		3/8 I.P. THREADED SHANK STRAIGHT TYPE							33	" "
33	Ecc. Strap Oil Cup POWELL-PT. E-2016	6	POWEL TOP									34	" "
34	" " GREASE CUP	6	LUNKENHEIMER 2-TIGER									35	" "
35	" " " " Nut											36	" Damper Reg.
36	POWER REVERSE GEAR [redacted] GREASE FITTINGS	13	PRIME ALEMITE #1401-1/4" I.P. SIZE									37	" "
37	" " [redacted] " "	2	PRIME ALEMITE #1184-1/8" I.P. SIZE									38	" "
38	SQ. SHAFT SLEEVE GREASE [redacted] FITTING ADAPTER	24	632-A-5023 STICK BRASS									39	" "
39	SQUARE SHAFT [redacted] SLEEVE GREASE FITTINGS	24	PRIME ALEMITE #1184-1/8" I.P. SIZE									40	" "
40	COUPLING RING [redacted] GREASE FITTINGS	24	ZERK-ALEMITE #1610-1/8" I.P. SIZE									41	" Heater
41	Link Oil Cup											42	" " Stuffing
42	TRK. CENTER PLATE OIL [redacted] PIPING	3-SET	592-A-5044									43	" "
43	" " " Nut											44	" "
44	Packing Oil Cup	3	592-A-5005	FUR. 1" 16 STEEL SPRING						59-44		45	
45	" " " Cap	3	" "							59-45		46	
46	" " " [redacted] PLUG	3	" "	STEEL FURNISH WIRE								47	
47	Rod Oil Cup ARR'G'T.	1 SET	592-A-5038									48	
48	" " " Cap PLUG	3	" PRIME ALEMITE	STEEL								49	
49	" " " Plug	3	#1268									50	GROUP 61—PAINT
50	" " " Latch											51	Lettering
51	" " " Spring											52	Numbering
52	" " " Base											53	
53	Tumb. Shaft Oil Cup POWEL PT. E-2016	3	#4 POWELL SPRING TOP		5/8" I.P. THD. SHANK STRAIGHT TYPE							54	
54	" " " " Cap											55	CYL. COCK R
55	VALVE STEM X-HEAD [redacted] GUIDE OIL CUP	6	POWELL #4 SPRING TOP		POWELL PT.-E-2016. SPECIAL ELBOW SHANK THREADED 3/8" I.P.							56	" "
56	Truck Box Oil Cup Cover—R. Box											57	" "
57	" " " " " —L. Box											58	" "
58	" " " " " Hinge Plate											59	
59	Valve Stem Oil Cup											60	
60	Oil Can Shelf - COMPLETE	1	592-B-458		592-B-458	(FURN. ANGLE & EDGE)						61	
61	" " " Bracket	2	592-B-458		59-B-98								

CASTINGS—PATTERN NUMBERS			Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
Steel	Brass	Mal. Iron					Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
				1	[redacted] LUBRICATOR DRIVE PIN	1	592-A-5042	MED. CAR. STEEL	FURN. NUTS, WASHERS & COTTERS				
247				2	" " Arrangement	1-SET	594-A-5000	WELD CLAMPS ONTO SUIT					
				3	" " [redacted] DRIVE ROD	1	593-M-5002	3/8" I.P. WELD 1/2" DIA. ENDS INTO PIPE					
				4	" " [redacted] " " LOWER END	1	592-A-5042	STICK BRASS					
				5	" [redacted] PUSH Rod	1	593-L-5002	3/8" I.P. WELD 1/2" DIA. END INTO PIPE					
				6	" " " Jaw	1	A-11149 SET 3	LINE 3	(FURN. RIVET PIN & DRILL FOR COTTER)				
				7	" " " GUIDE - COMPLETE	1	593-K-5002	WELD JAW TO TUBE	(FURNISH RIVET PIN & DRILL FOR COTTER)				
				8	" " [redacted] " ARM	1	592-A-5041		592-A-5041				
				9	" " DRIVE Arm LINK	1	594-A-5000	3/8" DIA. C.R.S. X 13 1/2" LONG					
				10	" " BRKT. PLATE [redacted]	1	182-A-5119	PLATE	(FURN. & APPLY STUDS)				
				11	" " " [redacted]	1	183-A-5030	PLATE					
				12	" [redacted] "	1	183-B-5030	"					
FISHING				13	" " " BRKT. ROD GUIDE	1	182-A-5118	FURN. COMPLETE	182-A-5118				
				14	" " [redacted] -HYDROSTATIC LUB.	1	592-A-5040	" "	592-A-5040				
				15	" DRIVE ROD END (UPPER)	1	592-B-5042	STICK BRASS					
				16	" Heater Support								
				17	" " Clamp								
				18	" Regulator Bracket								
				19	" " Shaft								
				20	" " " Arm								
				21	" " " Hanger								
				22	" " " Collar								
				23	" " " "								
				24	" " Quadrant								
				25	" " " Lever								
				26	" " Latch								
				27	" " " Handle								
				28	" " " Spring								
				29	" " " Link								
(NT TYPE)				30	" " " Guide								
				31	" " " Pin								
				32	" " Lever Dowel								
DE				33	" " " Stop								
				34	" " " Thumb Nuts								
				35	" " " Adjusting Screw								
				36	" Damper Regulator Quadrant								

		24	" " Quadrant									
		25	" " Lever									
		26	" " Latch									
		27	" " " Handle									
		28	" " " Spring									
		29	" " " Link									
YPE)		30	" " " Guide									
		31	" " " Pin									
		32	" " Lever Dowel									
		33	" " " Stop									
		34	" " " Thumb Nuts									
		35	" " " Adjusting Screw									
		36	" Damper Regulator Quadrant									
		37	" " " Handle									
		38	" " " Shaft									
		39	" " " " Bushing									
		40	" " " " Arm									
		41	" Heater									
		42	" " Stuffing Box									
		43	" " " " Follower									
59-44		44	" " " " Nut									
59-45		45										
		46										
		47										
		48										
		49										
		50	GROUP 61—PAINT'G, LETTER'G, NUM'G									
		51	Lettering									
		52	Numbering									
		53										
		54										
SHANK THREADED $\frac{3}{8}$" I.P.		55	CYL. COCK RIGGING PIN	1	282-C-5036	1020 STEEL						
		56	" " " "	13	282-A-5036	1020 STEEL						
		57	" " " "	1	282-B-5036	1020 STEEL						
		58	" " " KNUCKLE PIN	1	522-Y-428	FURN. COMPLETE	522-Y-428					
		59										
		60										
		61										

LED 60-16

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 62—PILOT AND SNOW PLOWS								
	1	PILOT								
	2	Pilot Band								
	3	" Bottom Plate								
	4	" Corner Iron								
	5	" Brace								
	6	" "								
	7	" "								
	8	" "								
	9	" " Rod								
	10	" Knee								
	11	" "								
	12									
	13									
	14	Snow Plow								
	15									
	16									
	17	GROUP 63—PIPE FITTINGS		CONTINUED ON PAGE 29						
	18	Air Gauge Fitting								
	19	" Pump Oil Fitting	1	632-H-709	STICK BRASS					
	20	" " " " Nut	1	632-C-709	STICK BRASS					
	21	" " " " Swivel	1	632-C-709	BRAZING METAL					
	22	" " STEAM PAD [redacted]	1	632-X-725	STEEL	LUB. LINE TO AIR PUMP STEAM				
	23	" " Tee								
	24									
	25									
	26	Blower Fitting	1	632-A-5008			63-80			
	27	" " Nut								
	28	Brake [redacted] GOV. LINE FITTING	4	632-U-709	BRAZING METAL	(UNIONS IN GAUGE LINE & GOV. LINE				
	29	" " " [redacted] NUT	4	632-B-709	STICK BRASS	(" " " " " "				
	30	Brake [redacted] Fitting SWIVEL	4	632-B-709	BRAZING METAL	(" " " " " "				
	31	" " " Nut								
	32	Coal Sprinkler Fitting - (AT VALVE)	1	632-C-1049	STEEL					

LED 60-17

Check	Item	
		GROUP
	1	Pipe C
	2	"
	3	"
	4	"
	5	"
	6	"
	7	"
	8	"
	9	"
	10	"
	11	
	12	PIPE
	13	"
	14	GROUI
	15	Piping
	16	"
	17	"
	18	"
	19	"
	20	"
	21	"
	22	"
	23	"
	24	"
	25	
	26	GROU
	27	PIST
	28	"
	29	"
	30	"
	31	
	32	

	23	" " Tee											23	" " CYL.
	24												24	" " SAND
	25												25	
	26	Blower Fitting	1	632-A-5008			63-80						26	GROUP 65—PISTON
	27	" " Nut											27	PISTON HEAD
	28	Brake GOV. LINE FITTING	4	632-U-709	BRAZING METAL	(UNIONS IN GAUGE LINE & GOV. LINE							28	" Packing
	29	" " " NUT	4	632-B-709	STICK BRASS	" " " " " ")							29	" Rod
	30	Brake Fitting SWIVEL	4	632-B-709	BRAZING METAL	(" " " " " ")							30	" " NUT
	31	" " " Nut											31	
	32	Coal Sprinkler Fitting - (AT VALVE)	1	632-C-1049	STEEL								32	
	33	" " PIPE PAD	1	632-J-1045	STEEL								33	PISTON ROD PA
	34	" " HOSE	1-SET	1" 2 I.D. X 3 PLY X 8 FT. LONG									34	Packing Rings
	35	Cylinder Oil Pipe Fitting	3	632-B-4	STICK BRASS								35	" Spring W
	36	" " " " Nut	4	632-C-709	STICK BRASS	HYDRO. LUB. LINES UNION							36	" Swab Cap
	37	" " " " "	4	632-W-709	BRAZING METAL	" " " "							37	" Follower
	38	" " " " Swivel	4	632-C-709	BRAZING METAL	" " " "							38	" Stuffing B
	39	" " " CHOKE PLUG MACHINING	3	632-H-305	MACH. AT LIMA								39	" "
	40	Angle Valve Nut											40	" Vibrating
	41	" " Swivel											41	" Spring
	42	Through Valve Nut											42	" SWAB CUP
	43	" " Swivel											43	" RINGS (FOR
	44	Oil Cock Nut											44	PACKING STUDS
	45	" " Swivel											45	GROUP 66—PLUGS
	46	Lubricator Check											46	Arch Tube Plug
	47	Steam Brake Oil Fitting											47	Back Head Plug
	48	" " " " Nut											48	Crown Plug
	49												49	Ecc. Strap Plug
	50	BRAKE Pipe Union FITTING	2	632-W-709	BRAZING METAL	(UNIONS IN DIST. VALVE LINES)							50	Firebox Plug
	51	" " " Nut	2	632-C-709	STICK BRASS	" " " "							51	" "
	52	" " " Swivel	2	632-C-709	BRAZING METAL	" " " "							52	Fusible Plug
	53	Oil Pipe Union FITTING	26	632-B-2081	BRAZING METAL	MANZEL OIL LINES							53	Indicator Plug
	54	" " " Nut	26	632-A-2081	STICK BRASS	" " "							54	CYL. PEEP HOLE
	55	" " " Swivel	26	632-A-2081	BRAZING METAL	" " "							55	Tube Sheet Plug
	56	Steam GAUGE FITTING (AT GAUGE)	1	632-D-1055	STICK BRASS								56	Test Plug
	57	" " " Nut "	1	632-B-709	" "								57	Waist Plug
	58	" " " Swivel "	1	632-B-709	BRAZING METAL								58	Washout Plug Val
	59	SUPRTR DAMPER CYL. FITTING	6	632-A-71	STICK BRASS								59	" " "
	60	" " " NUT	6	632-A-5	STICK BRASS								60	" " Flan
	61	" " "SWIVEL	6	632-A-5	BRAZING METAL								61	" "

PATTERN NUMBERS		LED 60-16	LED 60-17									
Brass	Mal. Iron	Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
						Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
				GROUP 63—PIPE FITTINGS (Cont.)								
			1	Pipe Clamp	2	632-A-345				63-541		
			2	" "	3	632-D-345				63-837		
			3	" "	1	632-A-394				63-593		
			4	" " CAP	5	632-A-346				63-542		
			5	" " "	1	632-D-346				63-566		
			6	" "	3	633-C-84		633-C-84	CYL. COCKS			
			7	" " CAP	3	633-C-84		633-C-84	" "			
			8	" "	1	633-H-71		633-H-71	" "			
			9	" " CAP	1	633-H-71		633-H-71	" "			
			10	" " BRKT. L.S. DOME COURSE	1	632-A-5020		632-A-5020				
			11								63-1321	
			12	PIPE PROTECTION COLLAR	2	632-A-1131	LUB. STEAM LINE AT CAB				63-1323	
			13	" " "	4	632-C-1131	WATER GAUGE AT CAB					
			14	GROUP 64—PIPING ARRANGEMENTS								
			15	Piping Arr'g. General	1-SET	640-A-5005						
			16	" " Air Brake								
			17	" " Cooling Pipes								
			18	" " Bet. Eng. and Tender								
			19	" " Oil Heater								
			20	" " Sprinkler	1-SET	643-A-5006						
			21	" " DAMPER CYL.	1-SET	643-A-5005						
			22	" " CYL. COCKS	1-SET	647-A-5000						
			23	" " SANDER-REAR TRUCK	1-SET	647-A-5001						
			24	" " " -FRONT TRUCK	1-SET	644-A-5006						
			25									
			26	GROUP 65—PISTON AND ROD								
			27	PISTON HEAD	3	652-B-5001	H.S. CAST IRON Pot Pattern CAST.			65-314 H.S. PAT. H.S. 1705		
			28	" Packing Rings, Material For	6	653-S-5000						
			29	" Rod	3	652-A-5183		652-A-5183				
			30	" " NUTS	3	" "	MED. CARBON STEEL	4" ACROSS FLATS HEX X 2" THICK. FIN. SIZES				
			31									
			32				RINGS [redacted]					
			33	PISTON ROD PACKING ARRGT.	3 SET	7742						
			34	Packing Rings	3 SET	652-C-5155		PAXTON MITCHELL				

	23	" " SANDER-REAR TRUCK	1-SET	647-A-5001							
	24	" " " -FRONT TRUCK	1-SET	644-A-5006							
	25										
	26	GROUP 65—PISTON AND ROD									
	27	PISTON HEAD	3	652-B-5001	N.S. GUN IRON Pot Pattern CAST.		65-314 N.S. PAT. N.S. 1705				
	28	" Packing Rings, Material For	6	653-5-5000							
	29	" Rod	3	652-A-5183		652-A-5183					
	30	" " NUTS	3	" "	MED. CARBON STEEL	1¼ ACROSS FLATS HEX X 2	THICK. FIN. SIZES				
	31										
	32										
	33	PISTON ROD PACKING ARRGT.	3 SET	7742	RINGS [redacted]						
	34	Packing Rings	3 SET	652-C-5155		PAXTON MITCHELL					
	35	" Spring Washer	3	653-A-5009			65-211				
	36	" Swab Cap	3	653-C-5009					65-315		
	37	" Follower									
	38	" Stuffing Box	3	652-A-5051			65-307				
	39	" " " Gland	3	652-A-5052			65-308				
	40	" Vibrating Cups	3	653-B-5009			65-131				
	41	" Spring No.-17	3	762-C-5009							
	42	" SWAB CUP PACKING	3 SET	7742		ROPE WICK PACKING					
	43	" RINGS (FOR RUNNING ENG. & SPARE SET)	6 SET	652-C-5155		PAXTON MITCHELL					
	44	PACKING STUDS Piston Rod	12	652-A-5003	STEEL. FUR. NUTS						
	45	GROUP 66—PLUGS									
	46	Arch Tube Plug	6	662-C-1					66-65		
	47	Back Head Plug ([redacted])	3	662-A-5007					66-7		
	48	Crown Plug	4	" "					66-7		
	49	Ecc. Strap Plug									
	50	Firebox Plug ([redacted])	4	662-A-5007					66-7		
	51	" "									
	52	Fusible Plug									
	53	Indicator Plug									
	54	CYL. PEEP HOLE [redacted] PLUG	6	662-A-5010	STICK BRASS						
	55	Tube Sheet Plug									
	56	Test Plug									
	57	Waist Plug ([redacted])	5	662-A-5007					66-7		
	58	Washout Plug Valve									
	59	" " " Cap									
	60	" " Flange									
	61	" " "									

LED 60-18

LED 60-19

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 68—REVERSE LEVER								
	1	Reverse Lever (IN CAB)	1	ALCO PT. 683-S-14540						
	2	" " SUPPORT [redacted]	1	682-A-5085	BAR STEEL FURN. BUSHING &	682-A-5085				
	3	" " BELL [redacted] CRANK	1	693-A-5003	CRANK COMPLETE FURN. NUTS, DOWEL	693-A-5003				
	4	" " [redacted] " PINS	2	692-A-5060	& COTTER					
	5	" " " [redacted] " PIN	1	692-B-5060	FURN. NUT, DOWEL & COTTER HEX. STEEL					
	6	" GEAR REACH Rod	1	692-A-5061	MILD STEEL	692-A-5061	(FURN. STEEL BUSHINGS)			
	7	" " " [redacted] " PIN	1	692-B-5061	FURN. NUT, DOWEL & COTTER					
	8	" SHAFT SUPPORT [redacted]	1	692-A-5059				69-698 (APPLY STRUTS WELD IN)		
	9	" " " " FILLER	1	693-B-5003	BAR STEEL	693-B-5003				
	10	" " " [redacted] CAPS	2	693-D-5003				69-699		
	11	" " REACH ROD [redacted] JAWS	2	693-C-5003	FURN. BUSHING	693-C-5003				
	12	" " [redacted] "	1-SET	692-A-5063		(FURN. & APPLY RIVETS)				
	13	" " " [redacted]	1-SET	692-B-5063		(" " ")				
	14	" SHAFT Arm COMPLETE	1	692-A-5058	FURN. BUSHINGS &	BOSSES-WELD ON				
	15	" " [redacted] "	1	692-A-5058		69-A-5019	Dia. of shaft on 1213 SP. increased.			
	16	" " " [redacted]	1	692-A-5058		69-A-5018				
	17	" " " Pin								
	18	" " Shaft Stand								
	19	REVERSE GEAR [redacted] Bracket	1	682-A-5084		682-A-5084	FURNISH BOSSES FOR WELDING			
	20	" " " BRACE	1	682-A-5084		682-A-5084				
	21	" " " "								
	22	POWER REV. GEAR ALCO	1	ALCO PT. # 683-S-53441	ALCO TYPE "G"					
	23	TUMBLING SHAFT ARM BUSHINGS	3	695-A-5002	STEEL-CASEHARDENED					
	24	" " " "	1	" "	" "					
	25	TUMBLING SHAFT CAP	2	693-B-5002			69-696			
	26	GROUP 69—REVERSE SHAFT								
	27	TUMBLING SHAFT COMPLETE	1	695-A-5002		4" DIA X 1332" LONG. FIN. SIZES				
	28	" " " ARM Arm	1	" "		69-A-5016 69-A-5017				
	29	" " " [redacted] BOX	2	693-B-5002			69-695			
	30	" " " Box	1	693-A-5002			69-695			
	31	" " " " Cap	1	" "			69-696			
	32	" " " Coupling Ball	2	693-E-5004	MED. CAR STEEL	693-E-5004				

Check	Item	
		GROUP
	1	Connect
	2	"
	3	"
	4	"
	5	"
	6	"
	7	Connect
	8	"
	9	"
	10	"
	11	"
	12	"
	13	"
	14	"
	15	
	16	GROUP
	17	Sand B
	18	"
	19	"
	20	"
	21	"
	22	"
	23	"
	24	"
	25	"
	26	"
	27	Air San
	28	"
	29	Sand B
	30	"
	31	"
	32	SAND

24	" " " "	1	" "	" "							24	" " Rod
25	TUMBLING SHAFT CAP	2	693-B-5002				69-696				25	" " Rod
26	GROUP 69—REVERSE SHAFT										26	" " Rod
27	TUMBLING SHAFT COMPLETE	1	695-A-5002		4" DIA. X 133" LONG. FIN. SIZES						27	Air Sander
28	" " ARM Arm	1	" "		69-A-5016 69-A-5017						28	" " Air
29	" " [redacted] BOX	2	693-B-5002				69-695				29	Sand Box [redacted]
30	" " " Box	1	693-A-5002				69-695				30	" " "
31	" " " " Cap	1	" "				69-696				31	" " " Rod
32	" " " Coupling Ball	2	693-E-5004	MED. CAR STEEL	693-E-5004						32	SAND BOX
33	" " " " Socket	1 1 1	693-A-5004 693-B-5004 693-C-5004					69-700			33	Back Sand Box
34	" " " " Cap	1 1	693-D-5004 693-H-5004					69-701			34	" " "
35	" " " " SCREW [redacted]	1	693-J-5004	HEX. STEEL							35	" " "
36	" " " " LOCK NUT [redacted]	1 1	693-K-5004 693-L-5004	" "							36	" " "
37	" " " WASHERS	4	693-E-5004	STEEL							37	" " "
38	" " " " Nut	1	693-F-5004	HEX STEEL							38	" " "
39	" " " ARR'GT.	1-SET	692-A-5062	FURN. NUTS, COTTERS ETC.							39	" " "
40	GROUP 71—RUNNING BOARDS										40	" " "
41	RUNNING BOARD - R. & L. SIDE COMPLETE	1-SET	710-A-5000					(FURN. TEE-IRON, RISERS & ANGLE			41	" " "
42	" " M.O.	1-SET	71-MO-5023								42	" " "
43	" " Bracket	1	712-A-5062	FURN. COMPLETE	712-A-5062			R.S. BOARD OVER RESERVOIR			43	" " "
44	" " "	1	712-A-5065	PLATE & ANGLES	(FURN. COMPLETE WITH TEE-IRON)			R.S. BOARD REAR OF BUMPER			44	" " "
45	" " "	1	712-B-5065	BAR	712-B-5065			" " "			45	" " "
46	" " "	1	712-E-5063	"	712-E-5063			R.S. TAPER COURSE			46	" " "
47	" " "	1	712-D-5063	"	712-D-5063			R.S. DOME COURSE-BOT.			47	SAND BOX TO
48	" " " [redacted]	1	712-C-5063	"	712-C-5063			R.S. DOME COURSE-TOP			48	" "
49	" " " "	1	712-B-5063	"	712-B-5063			R.S. FIREBOX FRONT			49	" "
50	" " " "	1	712-A-5063	"	712-A-5063			R.S. FIREBOX BACK			50	" "
51	" " " "	1	712-E-5064	"	712-E-5064			L.S. REAR OF BUMPER			51	" "
52	" " " "	1	712-D-5064	"	712-D-5064			L.S. ON FRAME AT FIREBOX			52	" "
53	" " " "	1	712-A-5064	PLATE	712-A-5064			L.S. ON FRAME AT SMOKE BOX			53	" "
54	" " " "	1	712-B-5064	"	712-B-5064			L.S. ON FRAME AT TAPER COURSE			54	" "
55	" " " [redacted]	1	712-C-5064	"	712-C-5064			L.S. ON FRAME AT DOME COURSE			55	" "
56	" " " "	1	712-A-5066	PLATE & ANGLES	(FURN. COMPLETE)			R.S. FRONT OF CAB			56	" "
57	" " " "	1	712-A-5067	PLATE & ANGLES	(" ")			R.S. CAB DOOR AT FRONT			57	" "
58	" " " "	1	713-C-5048	" "	(FURN. COMPLETE)			R.S. CAB DOOR AT REAR			58	" " BA
59	" " " "	1	713-D-5048	" "	(" ")			R.S. FUEL BUNK AT REV. GEAR			59	" "
60	" " " "	1	713-A-5048	" "	713-A-5048	(FURN. COMPLETE)		R.S. AT REAR OF FUEL BUNK			60	
61	" " " "	1	713-B-5048	PLATE	713-B-5048			L.S. AT REAR OF FUEL BUNK			61	

PATTERN NUMBERS		Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
Brass	Mal. Iron					Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
				GROUP 72—RODS								
			1	Connecting Rods	3	723-A-5012		72-A-5001				
			2	" " Brass, Xhd End TOP	3	722-A-5026	BABBITTED				72-349	
			3	" " " " " BOT.	3	" "	"				72-349	
			4	" " " Crank "	3	722-A-5025	"				72-348	
			5	" " " " "	3	" "					72-348	
			6	" " WEDGE & STRAP BOLTS	3-SETS	723-A-5012	STEEL	723-A-5012				
			7	Connecting Rod Strap	3	723-A-5012		72-A-5032				
			8	" " Wedge—Top	3	" "		89-F-3				
			9	" " " —Bottom	3	" "		89-F-2				
			10	" " ~~Key~~ Top WEDGE	3	" "	STEEL	3/4 DIA. X 48 1/8" LONG. FIN. SIZES				
			11	" " " —Bottom								
			12	" " Wedge Liner-TOP	3	723-A-5012		3/8" X 3 1/8" X 48 3/8" - FIN SIZES				
			13	" " " " - BOT.	3	" "		1/2" X 4 1/2" X 72 1/2" " "				
			14	" " " " WASHER	6	" "		4" DIA. X 1 1/4" " "				
3 SP increased.			15									
			16	GROUP 73—SAND BOX MAT'L ORDER	1-SET	73-MO-5000						
			17	Sand Box—Front								
			18	" " Base								
			19	" " Top								
			20	" " Lid	1	732-A-27				73-130		
			21	" " Valve	2	732-A-5001				73-90		
			22	" " Lever—Short	1	732-A-5004				73-20		
			23	" " " —Long	1	732-A-5044		732-A-5044		*	DO NOT MAKE NEW FORGING, IF NOW MADE	
			24	" " Rod Handle	1	732-A-5027				73-6		
			25	" " Rigging LINKS	2	737-A-5002		1/4" X 2" X 25" ROUNDED ENDS			DO NOT RE-ORDER IF NOW MADE	
			26	" " Rod	1	3/8" I. PIPE LENGTH TO SUIT E.S						
			27	Air Sander (U.S.M.P.CO. #106-B)	4	LEACH-SINGLE TYPE D-2						
			28	" " Nozzle(" ")	4	" "	" "					
			29	Sand Box—[redacted] ROD JAW	1	732-J-28		732-J-28				
			30	" " [redacted] " " PIN	1	152-A-5007	NO. 7 RIVET FURN. COTTER					
			31	" " RIGGING [redacted] LINK PIN	2	152-A-5007	NO. 6 RIVET FURN. COTTER					
			32	SAND BOX—Back								
			33	Back Sand Box Arrangement	1-SET	732-D-5032	PLATE					

23	" " " " Long	1	732-A-5044		732-A-5044		FORGING, IF NOW MADE	
24	" " Rod Handle	1	732-A-5027		1" 4X2"X25" ROUNDED ENDS	73-6	DO NOT RE-ORDER IF NOW MADE	
25	" " Rigging LINKS	2	737-A-5002					
26	" " Rod	1	3/8 I. PIPE LENGTH TO SUIT E.S					
27	Air Sander (U.S.M.P.CO. #106-B)	4	LEACH-SINGLE TYPE D-2					
28	" " Nozzle (" " ")	4	" " "	" "				
29	Sand Box—[redacted] ROD JAW	1	732-J-28		732-J-28			
30	" " [redacted] " " PIN	1	152-A-5007	NO. 7 FURN. COTTER RIVET				
31	" " RIGGING [redacted] LINK PIN	2	152-A-5007	NO. 6 FURN COTTER RIVET				
32	SAND BOX—Back							
33	Back Sand Box Arrangement	1-SET	732-D-5032	PLATE				
34	" " " Base	2	732-A-5025			73-5		
35	" " " Top	2	732-A-5024			73-314		
36	" " " Covers	2	" "			73-12		
37	" " " [redacted] TRAP PLATES	2	732-D-5032	1" 1" 1" 2 X 2 2 X 7 2 BAR STOCK				
38	" " " Shaft Hanger							
39	" " " " " " Caps							
40	" " " Hand Lever							
41	" " " " " " Fulcrum							
42	" " " " " " Rod							
43	" " " Horiz. Lever							
44	" " " " " " Fulcrum							
45	" " " " " " Guide							
46	" " " Rod Jaws							
47	SAND BOX TOP " FRONT	1	733-A-5021	WELDED CONSTR. THRD. EYEBOLT & FURN. NUTS # 0 BULL DOG	73-A-8	(FURN. & APPLY ANGLE LUGS ON SIDES)		
48	" " " [redacted] EYEBOLTS	2	733-A-5021					
49	" " " " [redacted] LID CHAIN	1-SET	733-A-5021			(ATTACH CHAIN TO EYE BOLTS)		
50	" " " BASE " FRONT	1	737-A-5002	WELDED CONSTR.		(FURN. COMPLETE)		
51	" " " [redacted] " LUGS	1-SET	737-A-5002	PLATE	(MAKE TO SUIT BASE & WELD ON IN ERECT SHOP)			
52	" " " " Rod							
53	" " " " "							
54	" " " " " Conn.							
55	" " " Rod Bell Crank							
56	" " " " " " Fulcrum							
57	" " " Brace	2	732-A-5043	DRILL HOLES IN S. BOX TO SUIT BRKT. 732-A-5043				
58	" " BASE WASHERS (2 1/8")	2	732-H-10			73-96		
59	" " " " (2 3/4")	2	732-P-10			73-389		
60								
61								

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 74—SHAFTS								
	1	COUPLING RING —Front	1	743-A-5142				74-958		
	2	" " Half "	1	743-B-5142	SAWED IN HALVES			74-959		
	3	" " Bushing "	4	742-A-5462					74-960	
	4	" " GREASE PLUG "	4	742-B-5389	STEEL					
	5	" " —No. 2	2	743-A-5142				74-958		
	6	" " Half "	2	743-B-5142	SAW IN HALVES			74-959		
	7	" " Bushing "	8	742-A-5462					74-960	
	8	" " GREASE PLUG "	8	742-B-5389	STEEL					
	9	" " ON CRANK	2	743-A-5142				74-958		
	10	" " Half " ON CRANK	2	743-B-5142	SAW IN HALVES			74-959		
	11	" " Bushing " "	8	742-A-5462					74-960	
	12	" " GREASE PLUG "	8	742-B-5389	STEEL					
	13	" " —Rear	1	743-A-5142				74-958		
	14	" " Half "	1	743-B-5142	SAW IN HALVES			74-959		
	15	" " Bushing "	4	742-A-5462					74-960	
	16	" " GREASE PLUG "	4	742-B-5389	STEEL					
	17	" " BOLTS	48	742-H-5320	STEEL FURNISH NUTS					
	18	CRANK SHAFT	1	745-A-5023		74-A-5028				
	19	Counterbalance WEIGHT	1	743-A-5032			74-713			
	20	" Weight	1	" "			74-714			
	21	" "	1	" "			74-715			
	22	" "	1	" "			74-716			
	23	" Yoke	2	742-A-5174		74-A-5001				
	24	" "	2	" "		74-A-5002				
	25	Horn Coupling CRANK (BOTH ENDS)	2	742-C-5292				74-490		
	26	" "								
	27	" " Key								
	28									
	29									
	30	LINE SHAFT—Front Truck FURNISH KEYS	1	743-A-5144		6 9/16" DIA X 110" LONG FIN SIZES				
	31	" " —2nd " (")	1	743-A-5144		6 9/16" DIA-X117" LONG FIN SIZES				
	32	" " —3rd "								
	33	" " Rear " FURNISH				9" 3" FIN				

Check	Item	
		GROUP 74—
	1	LINE SHA
	2	" "
	3	" "
	4	" "
	5	" "
	6	" "
	7	" "
	8	" "
	9	" "
	10	" "
	11	" "
	12	" "
	13	GEAR RIM
	14	" "
	15	" "
	16	SQUARE SI
	17	"
	18	"
	19	"
	20	"
	21	"
	22	"
	23	"
	24	
	25	
	26	GROUP 75—S
	27	SMOKE BO
	28	" "
	29	[redacted]
	30	SMOKE E [redacted]
	31	" "
	32	" "

	23	" " Yoke	2	742-A-5174		74-A-5001	LT 11-D					23	"
	24	" " "	2	" "		74-A-5002						24	
	25	Horn Coupling CRANK (BOTH ENDS)	2	742-C-5292				74-490				25	
	26	" "										26	GROU
	27	" " Key										27	SMOK
	28											28	"
	29											29	
	30	LINE SHAFT—Front Truck FURNISH KEYS	1	743-A-5144		6 9/16" DIA X 110" LONG FIN SIZES						30	SMO
	31	" " —2nd " (")	1	743-A-5144		6 9/16" DIA-X117" LONG FIN SIZES						31	"
	32	" " —3rd "										32	"
	33	" " —Rear " (FURNISH KEYS)	1	743-A-5144		6 9/16" DIA X 107	3/8" FIN LONG SIZES					33	"
	34	" " Bearings, Outside—Front	2	742-B-5151					74-825-A			34	"
	35	" " " Inside "	2	" "					74-825-A			35	Nettin
	36	" " " Outside—2nd	2	" "					74-825-A			36	"
	37	" " " Inside "	2	" "			—		74-825-A			37	
	38	" " " Outside—3rd										38	"
	39	" " " Inside "										39	"
	40	" " " Outside—R'r	2	742-B-5151					74-825-A			40	"
	41	" " " Inside "	2	" "					74-825-A			41	"
	42	" " " Plate—Front	2	742-A-5153			74-827					42	Cleani
	43	" " " " —2nd	2	" "			74-827					43	"
	44	" " " " —3rd										44	"
	45	" " " " —Rear	2	742-A-5153			74-827					45	Peep
	46	" " Collar	5	742-A-5019				74-686				46	SMOKE
	47	" " "	6	742-C-5020				74-824				47	SMOK
	48	" " "	1	742-C-5019				74-217				48	"
	49	" " "										49	"
	50	" " "										50	"
	51	" " "										51	"
	52	" " "										52	SMOK
	53	" " "										53	"
	54	" " "										54	"
	55	" " Coupling (FRONT TRUCK)	1	742-B-5461				74-578-A				55	"
	56	" " " (2ND. TRUCK)	2	742-B-5461				74-578-A				56	"
	57	" " " (REAR TRUCK)	1	742-B-5461				74-578-A				57	"
	58	" " "										58	"
	59	" " "										59	"
	60	" " "										60	"
	61	" " "										61	SMOKE

CASTINGS—PATTERN NUMBERS Brass	CASTINGS—PATTERN NUMBERS Mal. Iron	Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	CASTINGS—PATTERN NUMBERS Cast Steel	CASTINGS—PATTERN NUMBERS Brass	CASTINGS—PATTERN NUMBERS Mal. Iron
				GROUP 74—SHAFTS (Cont.)								
			1	LINE SHAFT Coupling Key								
			2	" " " "								
74-960			3	" " " "								
			4	" " Collar "								
			5	" " Pinion	6	742-C-5236				74-851-B		
			6	" " "								
74-960			7	" " "								
			8	" " "								
			9	" " Washer (LINE SHAFT)	12	742-D-5023			74-700			
			10	" " "								
74-960			11	" " "								
			12	" " "								
			13	GEAR RIM	6	743-A-5052				74-852		
			14	" " Bolt	60	742-A-5172	STEEL	FURNISH NUTS & COTTERS				
74-960			15	" " Key								
			16	SQUARE SHAFT—Front	1	742-A-5466				74-692		
			17	" " —Back	1	742-A-5464				74-320		
			18	" " —Center	1	742-A-5466				74-692		
			19	" "								
			20	" " Sleeve FRONT	1	743-B-5143				74-569		
			21	" " " SECOND	1	743-A-5143				74-568		
			22	" " " REAR	1	743-B-5143				74-569		
			23	" " "								
			24									
			25									
			26	GROUP 75—SMOKE BOX AND STACK								
			27	SMOKE BOX ARRANGEMENT	1 SET	817-A-5000	(APPLY NETTING AT FRONT 2½ X 2½ #12					
			28	" " TABLE Plate	1	817-A-5000						
			29	[redacted] " BACK ANGLE	1	817-A-5000		75-B-258				
			30	SMOKE BOX [redacted] MAT'L ORDER	1 SET	75-MO-5002						
			31	" " TABLE PLATE FRONT ANGLE	1	817-A-5000		75-C-309				
			32	" " " DRAFT PLATE-FIXED	1	752-C-238						
			33	" " " " -ADJ	1	752-D-238						

		24									
		25									
		26	GROUP 75—SMOKE BOX AND STACK								
		27	SMOKE BOX ARRANGEMENT	1 SET	817-A-5000	(APPLY NETTING AT FRONT 2½ X 2½ #12					
		28	" " " TABLE Plate	1	817-A-5000						
		29	[redacted] " " BACK ANGLE	1	817-A-5000		75-B-258				
		30	SMOKE BOX [redacted] MATL ORDER	1 SET	75-MO-5002						
		31	" " TABLE [redacted] PLATE FRONT ANGLE	1	817-A-5000		75-C-309				
		32	" " " DRAFT PLATE-FIXED	1	752-C-238						
		33	" " " " -ADJ.	1	752-D-238						
74-825-A		34	" " " [redacted] ANGLE	1	817-A-5000		75-B-32				
74-825-A		35	Netting Frame OUTSIDE	1	" "		75-C-228				
74-825-A		36	" [redacted] INSIDE	1	" "		75-C-313				
74-825-A		37	[redacted] ANGLE	1	" "		75-F-185				
		38	" [redacted] KEY STUDS	10	752-E-234		752-E-234				
		39	" " Lid								
		40	" " Hand Wheel								
74-825-A		41	" " Yoke								
74-825-A		42	Cleaning Hole								
		43	" " Flange	2	752-A-5054			75-61			
		44	" " Cover	2	752-A-5055	FURNISH CHAIN		75-66			
		45	Peep " Flange								
		46	~~" " Cover~~ SMOKE BOX LINER BRKTS.	4	752-A-5101	STEEL	752-A-5101				
		47	SMOKE BOX Brace—Right	1	752-A-5104		752-A-5104				
		48	" " " —Left	1	752-A-5104		752-A-5104				
		49	" " " Pad (ON S.B.)	2	752-C-5047				75-10		
		50	" " " Pin (" S.B.)	2	752-B-5104	STEEL					
		51	" " " Washer	2	752-D-5104	STEEL					
		52	SMOKE BOX FRONT	1	753-A-5050						
		53	" " " Door	1	753-A-5050						
		54	" " " Liner	2	A-12982 LINE 3			75-398			
		55	" " Door Liner	1	3089			75-48			
		56	" " " Buttons	15	752-A-5079			75-455			
		57	" " " Hinge	1	752-A-5079		75-A-5000 75-A-5003				
		58	" " " " PIN	2	¾" DIA. X 3¼" LONG	STEEL RIVET DRILL FOR 3/16" COTTER TO SUIT					
		59	" " " " Lug (TOP)	1	752-A-5079				75-25		
		60	" " " " " (BOTTOM)	1	752-A-5079				75-26		
		61	SMOKE BOX BRACE ASSEMBLY	1R 1L	753-A-5049						

LED 60-22

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 75—SMOKE BOX & STACK (Cont.)								
	1	SMOKE STACK (Type)	1	753-A-5036			75-12			
	2	Smoke Stack Base								
	3	" " Extension								
	4	" " Top								
	5	" " Cone								
	6	" " " Bracket								
	7	" " " Brace								
	8	" " " "								
	9	" " Cleaning Hole								
	10	" " " " Cap								
	11	" " Hood								
	12	" " Ring								
	13	" " "								
	14	" " " Angle								
	15	" " Saddle								
	16									
	17									
	18	GROUP 76—SPRINGS								
	19	Truck Bolster Springs	96	762-A-5003						
	20	" Pedestal "								
	21	Drawgear Springs								
	22	STEAM PIPE MANIFOLD	1 SET	794-A-5001	WELDED					
	23	" " " REAR SECTION	1	" "				79-1084		
	24	" " " CENTER "	1	" "				79-1085		
	25	" " " FRONT "	1	" "				79-1086		
	26	GR'P 78—STE. GAUGE SAF. VAL. & TUR.								
	27	Steam Gauge 6 3/4" IRON CASE	1	ASHCROFT NO. 1146		PT. #A2-1637				
	28									
	29	Safety Valve - 3" OPEN TYPE - FC	2	ASHTON PT. 78-B						
	30	" " ELBOW JOINT RING	1	782-A-21					STEAM METAL 78-117	
	31	" " Elbow	1	782-A-21				78-116		

LED 60-23

Check	Item	
	0	GROUP 81—S
	1	Superheater
	2	"
	3	"
	4	"
	5	"
	6	"
	7	"
	8	"
	9	"
	10	"
	11	"
	12	"
	13	"
	14	"
	15	"
	16	"
	17	"
	18	"
	19	"
	20	"
	21	"
	22	"
	23	"
	24	"
	25	"
	26	"
	27	"
	28	"
	29	"
	30	"
	31	"
	32	"

	REAR SECTION	1	" "				79-1084			23	
24	" " "CENTER"	1	" "				79-1085			24	
25	" " "FRONT"	1	" "				79-1086			25	
26	GR'P 78—STE. GAUGE SAF. VAL. & TUR.									26	
27	Steam Gauge 6¾" IRON CASE	1	ASHCROFT NO. 1146		PT. #A2-1637					27	
28										28	
29	Safety Valve - 3" - OPEN TYPE - FC	2	ASHTON PT. 78-B							29	
30	" " ELBOW JOINT RING	1	782-A-21					STEAM METAL 78-117		30	
31	" " Elbow	1	782-A-21				78-116			31	
32	" " Turret									32	
33	TURRET CASING - COMPLETE	1	783-A-5008	PLATE & ANGLES		(FURN. COMPLETE - HINGES & HASP)				33	
34	" " " WASHERS (2½")	4	532-B-272							34	
35	SAFETY VALVE " " EXT. BUSHING	2	782-A-5016			53-111		STEAM METAL 78-412		35	
36	" " " Flow-Bowl									36	GROUP 79
37	TURRET	1	783-D-44				78-296			37	TANK VALVE
38	" Ball Joint (AT BOILER)	1	782-A-5014					STEAM METAL 78-499		38	
39	" Stuffing Box GLAND	1	782-B-137					STEAM METAL 78-399		39	
40	" " " Nut	1	" "					78-298		40	
41	" " " Follower YOKE	1	" "					STEAM METAL 78-297		41	
42	" Master Valve	1	782-C-138					STEAM METAL 78-300		42	
43	" " " Nut	1	" "	FURNISH 3/16" BRASS PIN				STEAM METAL 78-301		43	
44	" " " Stem	1	" "	STEEL						44	
45	" " " Hand Wheel	1	263-A-1				26-65			45	
46	" DRY PIPE & ELBOW	1	782-A-5015	3" EX. HY. PIPE		CLAMP TO SUIT				46	
47	Turret (Auxiliary)									47	
48	GROUP 79—STEAM PIPES FLANGE	1	792-A-5078				79-1089			48	
49	STEAM PIPES	1	792-A-5078		8" EX. HEAVY PIPE					49	
50	" " Slip Joint	1	792-A-5077				79-1087			50	Siphon
51	" " " " Gland	1	" "	FURNISH & APPLY ¾" DIA. ASBESTOS ROPE		79-1088				51	
52	" " Elbow - AT SMOKE BOX	1	793-A-5014				79-646-A			52	
53	" " " Support	1	792-A-5079		792-A-5079					53	
54	" " JOINT RING	1	792-B-110	BET. ELBOW & ST. PIPE FLANGE		79-405				54	
55	" " Joint Ring—	1	792-Y-109	MANIFOLD & SLIP JOINT		79-932				55	
56	" " " "	1	792-R-99	#3 CYL.		79-115				56	
57	" " " "	1	792-P-105	BETWEEN SUP HEADER & ELBOW		79-974				57	
58	" " " "	2	792-J-100	#1 & 2 CYL		79-115				58	
59	" " Casing (ON SMOKE BOX)	2 HALVES	793-A-5001			79-647				59	
60	" " " PACKING	1 SET	¾" ASBESTOS ROPE PKG.							60	
61	" " Nipple									61	

CASTINGS—PATTERN NUMBERS		Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
Brass	Mal. Iron					Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
			0	GROUP 81—SUPERHEATER HEADER DRILLING	1	813-A-5022						
			1	Superheater Arrangement	SET	817-A-5000						
			2	" Header	1	SUPERHEATER CO. DWG. 11052-A						
			3	" " Support	1-R 1-L	812-D-5012	PLATE	812-D-5012				
			4	" " JT. RING AT DRY PIPE UNIT JOINT SHIELD	1	792-L-105			79-113			
			5	" [redacted]	1	812-A-5024						
			6	" " "								
			7	" DEFLECTING [redacted] PLATES	1-SET	817-A-5000						
			8	" " " [redacted] PL. ANGLES	1-SET	" "	ANGLE	817-A-5000				
			9	" " Clamp								
			10	" " " Washer								
			11	" " " Bolt								
			12	" " " " Washer								
			13	" " Support								
			14	" " Bands								
			15	" Unit								
			16	" Damper	1	SUPHTR. DWG. 2L-11422-R		FURN. WITH SUPHTR.				
			17	" " Cyl.	1	SUPERHEATER CO. DWG. 4-L-11436-A						
			18	" " " Arm	1	SUPHTR. DWG. 1599		FURN. WITH SUPHTR.				
			19	" " " Support	1	SUPERHEATER DWG. 2L-11073-M						
			20	" " Arm	1	SUPHTR. DWG. 1246-B	FURN. WITH SUPHTR.					
			21	" " Rod								
			22	" " Shaft	1	SUPERHEATER DWG. 10877-J		FURN. WITH SUPHTR.				
			23	" " "								
			24	" " " Bearing R.S.	1	SUPHTR. 2L-10345-E	FURN. WITH SUPHTR.					
			25	" " " " L.S.	1	SUPHTR. 1L-10386-P	" " "					
			26	" " PIN	1		" " "					
			27	" " " "	2		" " "					
			28	" " " Link	1	SUPHTR 10346-D	" " "				FURN. WITH SUPHTR.	
			29	" " Counterweight	1	" DWG. 2L-1067	" " "					
			30	" " " Arm								
			31	" " Hinge	1	SUPHTR. 2L-11422-R	" " "	FURN. WITH SUPHTR.				
			32	" " Flag								
			33	" Deflector Handle	6	752-A-79	FURN. NUTS & WASHERS	75-A-139				
			34	" " " Clamp	6	940-D-177	STEEL	940-D-177				

		24	" " " Bearing R.S.	1	SUPHTR. 2L-10345-E	FURN. WITH SUPHTR.						
		25	" " " " L.S.	1	SUPHTR. 1L-10386-P	" " "						
		26	" " " PIN	1		" " "						
		27	" " " " "	2		" " "						
		28	" " " " Link	1	SUPHTR 10346-D	" " "						
		29	" " " Counterweight	1	" DWG. 2L-1067	" " "				FURN. WITH SUPHTR.		
TEAM METAL 8-117		30	" " " " Arm									
		31	" " " Hinge	1	SUPHTR 2L-11422-R	" " "	FURN. WITH SUPHTR.					
		32	" " " Flag									
- HINGES & HASP)		33	" Deflector Handle	6	752-A-79	FURN. NUTS & WASHERS	75-A-139					
		34	" " " Clamp	6	940-D-177	STEEL	940-D-177					
TEAM METAL 78-412		35	" " " Plate Stud	9	812-A-51	STEEL	812-A-51					
		36	GROUP 82—TANK VALVES									
		37	TANK Valve—Water ARRGT.	2 SET	823-A-5008	FURNISH GASKETS, COTTERS, NUT, ETC.						
TEAM METAL 8-499		38	" " " Body	2	823-A-5008			82-139				
TEAM METAL 8-399		39	" " " " Plate	2	" "			82-142				
8-298		40	" " " Bottom Plate	2	" "			82-140				
TEAM METAL 8-297		41	" " " Top "	2	" "			82-144				
TEAM METAL 8-300		42	" " " Cap	2	" "			82-146				
TEAM METAL 78-301		43	" " " Seat	2	" "						82-143	
		44	" " " Stem	2	A-15147 STYLE #1	STEEL	82-A-5003					
		45	" " " " Nut	2	823-A-5008			82-145				
		46	" " " " Handle	2	823-A-5006			82-14				
		47	" " " " Clamp Nut	2	" "			82-15				
		48	" " " Strainer	2	823-A-5008	BR. WIRE NETTING						
		49	[redacted]	2	" "						82-141	
		50	Siphon									
		51	" Tube									
		52	" Pipe Flange									
		53	" Goose Neck									
		54	" Stand Pipe									
		55	" " " " Flange									
		56	" " " "									
		57	" Hose Strainer									
		58	" " " " Body									
		59	" " " " Cap									
		60	" " " Nipple									
		61	" " " Bracket									

LED 60-24

Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 82—TANK VALVES (Cont.)								
	1	Tank Valve—Oil								
	2	" " Seat								
	3	" " Cap Plate								
	4	" " Plate								
	5	" " Rod								
	6	" " Screen								
	7	" " Nut								
	8	" " Flange								
	9	" " Lever								
	10	" " Stem								
	11	" " " End								
	12	" " " Stuffing Box								
	13	" " " " " Nut								
	14	" " " " " Gland								
	15	" " " " " Follower								
	16	" Cock								
	17	" Cooler Cock								
	18	Tank Measuring Rod								
	19	" " " Flange								
	20	" " " Handle								
	21	" " " Guard								
	22	" " " "								
	23	FUEL BUNK MATERIAL	1 SET	83-MO-5001-A		PLATE				
	24	GROUP 83—TANK—ENGINE								
	25	Fuel Bunk	1	837-A-5000	PLATE					
	26	" " Rack								
	27	" " Tie Rod	2	837-A-5000		151-F-105				
	28	" " COAL GATE [redacted] BOARDS	6	837-A-5000	WOOD					
	29	" " Lugs								
	30	TENDER FRAME FLOORING " " [redacted]	1-SET	858-A-5000	WOOD					
	31	TENDER FRAME FLOOR ANGLE	1-SET	858-A-5000						
	32	TENDER FRAME MATERIAL ORDER	1 SET	85-MO-5001						
	33	GROUP 85—TENDER FRAME RIVET MAT'L ORD.	1 SET	85-MO-5002						

LED 60-25

Check	Item	
		GR
	1	Tan
	2	"
	3	"
	4	"
	5	"
	6	"
	7	"
	8	Tan
	9	"
	10	"
	11	"
	12	"
	13	"
	14	"
	15	"
	16	"
	17	"
	18	"
	19	"
	20	"
	21	GROU
	22	Thro
	23	Thro
	24	"
	25	"
	26	"
	27	"
	28	"
	29	"
	30	"
	31	"
	32	"
	33	"

24	GROUP 83—TANK—ENGINE											24
25	Fuel Bunk	1	837-A-5000	PLATE								25
26	" " Rack											26
27	" " Tie Rod	2	837-A-5000		151-F-105							27
28	" " COAL GATE BOARDS	6	837-A-5000	WOOD								28
29	" " Lugs											29
30	TENDER FRAME FLOORING	1-SET	858-A-5000	WOOD								30
31	TENDER FRAME FLOOR ANGLE	1-SET	858-A-5000									31
32	TENDER FRAME MATERIAL ORDER	1 SET	85-MO-5001									32
33	GROUP 85—TENDER FRAME RIVET MATL. ORD.	1 SET	85-MO-5002									33
34	Tender Frame - COMPLETE	1	858-A-5000	BUILT UP CONSTR. RIVETED & WELDED								34
35	" " Angle	2R	" "		85-A-5000							35
36	" " "	2L	" "		85-A-5000							36
37	" " "	4	" "		$\frac{5}{8}$"X6"X6"ANGLE	X 9$\frac{1}{2}$" LONG						37
38	" " "	2	" "		$\frac{5}{8}$"X6"X6"ANGLE	X 23" LONG						38
39	" " [redacted]	1-R 1-L	" "		85-A-5003							39
40	" " CHANNEL - REAR [redacted] END	1	" "									40
41	" " Brace	2	852-A-5004		852-A-5004							41
42	" " * CORNER KNEE	1-R 1-L	852-A-5007		852-A-5007	(FURNISH COMPLETE)						42
43	" " *FLOOR CLIPS	24	852-B-38-			85-4						43
44	Frame Centre Plate - COMPLETE	1	852-A-5006	WELDED CONSTR.	852-A-5006							44
45	" End Casting	1	853-B-5005				85-110					45
46	" " Timber Brace	2	852-A-5005				48-3					46
47	" Side Bearings	2	858-A-5000		2$\frac{1}{2}$"X6"X 18$\frac{3}{4}$" LONG							47
48	GROUP 87—TENDER DECK, TOOL BOX											48
49	Tool Box											49
50												50
51	GROUP 88—TENDER TANK											51
52	Tank—Water	1 SET	884-A-5007	PLATE								52
53	" Material Bill	1 SET	88-MO-5075									53
54	" Funnel (FURNISH BOLT, NUT & COTTER)	1	882-A-5011	PLATE								54
55	" " Lid	1	" "	"								55
56	" " Hinge	2	" "		151-F-97							56
57	" " Handle	1	" "		151-F-98							57
58	" " [redacted] Lug	2	884-A-5007		88-A-36							58
59	" " " [redacted] LUG	2	" "		88-A-5007							59
60	" " [redacted] HINGE LUG	1R 1L	882-A-5011		151-F-96							60
61	" [redacted] RINGS	2	" "		88-B-5001							61

GS—PATTERN NUMBERS		Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
Brass	Mal. Iron					Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal Iron
				GROUP 88—TENDER TANK (Cont.)								
			1	Tank—Headlight Bracket	1	884-A-5007		884-A-5007				
			2	" —Ladder (COMPLETE)	1	882-A-5010		882-A-5010	SIDES FORGED R. & L. FURNISH RINGS			
			3	" "								
			4	" —Coal Gate								
			5	" —Fuel Rack								
			6	" —Shoveling Sheet FT. & BK. COMPLETE	1-FT 1-BK	884-A-5008	PLATE	(ANGLES TO BE DRILLED TO SUIT FRAME AND RIVETED TO FRAME)				
			7	" " " ANGLES & TEE	1-SET	884-A-5008						
			8	Tank—Oil								
			9	" Material Bill								
			10	" Funnel								
			11	" " Cover								
			12	" " " Eye Bolts								
			13	" " " Tail Nuts								
			14	" " " Handle								
			15	" " Lug								
			16	" " "								
			17	" " Ring								
			18	" " Angle								
			19	" Lug								
			20	" "								
			21	GROUP 91—THROTTLE & DRY PIPE								
			22	Throttle Arrangement IN DOME	1 SET	913-A-5036						
			23	Throttle Valve	1	912-A-5044				91-155		
			24	" Case	1	913-A-5015				91-171-A		
			25	" Valve Stem	1	912-E-5008		912-E-5008				
			26	" " " " PIN	2	152-A-5007	LINES FURN. COTTER	STEEL RIVET				
			27	" Pipe Elbow								
			28	" Pipe Flange								
			29	" " Joint Ring	1	792-J-123				79-137		
			30	" Bell Crank	1	B-12143		B-12143				
			31	" " " Fulcrum PIN	1	152-A-5007	LINE 4 FURN. COTTER	STEEL RIVET 5/8" X 2 1/2" X 21" LONG				
			32	" Pipe Support	1	913-A-5036	DRILL TO SUIT					
			33	" " Yoke	1	913-A-5036		91-B-5005				
			34	" " Bracket	1	" "	DRILL TO SUIT	91-A-5003				
			35	" " "	1	" "	" "	91-A-5004				

23	Throttle Valve	1	912-A-5044			91-155			
24	" Case	1	913-A-5015			91-171-A			
25	" Valve Stem	1	912-E-5008		912-E-5008				
26	" " " ~~PIN~~	2	152-A-5007	FURN. LINE 5 COTTER	STEEL RIVET				
27	" Pipe Elbow								
28	" Pipe Flange								
29	" " Joint Ring	1	792-J-123			79-137			
30	" Bell Crank	1	B-12143		B-12143				
31	" " " Fulcrum PIN	1	152-A-5007	FURN. LINE 4 COTTER	STEEL RIVET				
32	" Pipe Support	1	913-A-5036	DRILL TO SUIT	$\frac{5}{8}$" X 2$\frac{1}{2}$" X 21" LONG				
33	" " Yoke	1	913-A-5036		91-B-5005				
34	" " Bracket	1	" "	DRILL TO SUIT	91-A-5003				
35	" " "	1	" "	" "	91-A-5004				
36	" Stuffing Box	1	912-A-5050			91-14			
37	" " " Gland	1	" "			91-15			
38	" " " Flange	1	912-A-5088	APPLY TO BACK HEAD BEFORE APPLYING BOILER BRACING & STAYS				91-152	
39	" Baffle Plate								
40	" ROD PACKING	1-SET	J.M.CO. STYLE R-32						
41	" " " Handle								
42	" " " Angle								
43	" " " Studs								
44	" LEVER BOSS ON ~~BK.~~ BK. HEAD	1	912-A-5103	STEEL 1020					
45	" "LEVER" ~~SPRING~~ SPRING	1	913-E-5018						
46	THROTTLE LEVER FURNISH BOLTS NUTS & DOWELS	1	913-E-5018		91-E-5029				
47	Throttle Lever Handle FUR. PIN. ETC.	1	682-E-173					68-3A	
48	" " Latch	1	913-E-5018	STEEL	$\frac{3}{4}$" X 2$\frac{1}{8}$" X 5$\frac{1}{4}$" FIN. SIZES				
49	" " " Rod	1	913-E-5018		121-F-168				
50	" " Links	1	912-A-5104		912-A-5104	MACHINE LENGTH TO SUIT E.S.			
51	" " Quadrant	1	912-A-5102			91-21			
52	" " Fulcrum	1	913-E-5018		91-D-5030				
53	" " ~~Guide~~ ROD KEY	1	" "	STEEL	$\frac{1}{4}$" X $\frac{1}{8}$" X 3" LONG FIN. SIZES				
54	" " Rod	1	913-E-5018	BRASS SLEEVE	913-E-5018	LENGTH TO SUIT E.S. WELDED.			
55	" " Support	1	912-A-5105		912-A-5105				
56	DRY PIPE (FUR. RIVETS)	1	912-A-5045						
57	" " ~~Elbow~~ END. FRONT	1	912-A-5045			91-59			
58	" " Support	1	912-A-5046		91-A-5022				
59	" " " CLAMP	1	"		91-A-5023				
60	" " ~~Tube~~ SLEEVES	2	912-A-5045	COPPER					
61	" " Elbow REAR	1	912-A-5045			91-190			

	22	Wrench List										21
	23	Ash Hoe COMPLETE	1	922-A-5010		922-A-5010						22
	24	WRENCH [redacted] WRIST PIN	1	922-A-145		922-A-145						23
	25	Clinker Hook	1			131-F-12						24
	26	Poker	1			131-F-22						25
	27	Wrecking Frogs (1PR) INSIDE	1	923-A-5005				92-66				26
	28	OUTSIDE	1	923-A-5006				92-67				27
	29	[redacted] COAL PICK	1	13101	WOOD HANDLE		92-22					28
	30	Oil										29
	31	GROUP 93—TRUCKS & DETAILS										30
	32	TRUCK Plan - FRONT TRUCK	1-SET	939-A-5002								31
	33	" Bolster - TOP	3-SET	933-A-5170								32
	34	" " End Casting—R.										33
	35	" " " " —L.										34
	36	" " Separator	6	932-C-5295				93-407				35
	37	" " Spring Centers	192	A-9548 LINE 1			93-53					36
	38	" " - BOTTOM	3-SET	933-A-5170								37
	39	" " BEVEL WASHERS	36	932-A-5681	BAR STEEL-1020							38
	40	" " Brake Rod Roller										39
	41	" " " " " Brkt.										40
	42	" PLAN - CENTER TRUCK [redacted]	1-SET	939-B-5002								41
	43	" " - REAR TRUCK	1-SET	939-C-5002								42
	44	" Center Plate	3	932-B-5221				93-697-A				43
	45	" Side Bearing Base	6	932-C-5247				93-417				44
	46	" " " Block FT. TRK.	2	932-C-5243			93-80					45
	47	" Frame RIGHT	3	933-C-5066				93-698				46
	48	" " LEFT	3	933-C-5067				93-704				47
	49	" Splice	3	" "	FIN. SIZES	2"X4½"X22"						48
	50	" SIDE BRG. BLOCK - CENT. TRK.	2	932-L-5404			93-81					49
	51	" Right Arch Bar										50
	52	" Left Arch Bar										51
	53	" Right Inverted Arch Bar										52
	54	" Left Inverted Arch Bar										53
	55	" Bottom Tie Bar R.S.	3	932-B-5235		932-B-5235						54
	56	" " " " L.S.	3	932-B-5236		932-B-5236						55
	57	" " " " Angle										56
	58	" " " " "										57
	59	" " " Fill. Block										58
	60	" Column—Right										59
	61	" " —Left										60
		" SIDE BEARING BLOCK TEND. TRK.	2	932-P-5243			93-134					61

LED 60-26

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
	0	GROUP 92—TOOLS EQUIPT LIST	1-SET	923-A-5011						
	1	Brake Shoes	1	202-A-5227			20-438			
	2	Chisel—Cape	1		TOOL STEEL	131-F-6				
	3	" —Flat	1		" "	131-F-7				
	4	Hammer—Soft	1	13102	Wood Handle				COPPER 92-16	
	5	Jack Screw	2	922-A-5007						
	6	" " Cap	2	" "			92-6			
	7	" " Base	2	" "			92-3			
	8	" " Collar								
	9	" "	1	922-A-5006						
	10	" " Cap	1	" "			92-8			
	11	" " Base	1	" "			92-5			
	12	JOURNAL BRASS [redacted] TRUCK	1	932-A-5228	BABBITED				93-701	
	13	Journal Brass Rod	1			131-F-8				
	14	Packing Hook & SPADE	1			92-A-5007				
	15	" Spade								
	16	Pinch Bar	1		"HY-TEN" STEEL	92-A-5005				
	17	Jack Bar	1	1"DIA.X36"						
	18	Torch — COMPLETE	1	922-A-216	(FURN. BODY & CAP		92-15			
	19	SUPHTR. " [redacted] UNIT BOLT WRENCH	1	922-A-122		922-A-122				
	20	" [redacted] SOCKET WRENCH	1			92-A-5008				
	21	Valve Tram	1	7422-SET #2		7422-SET #2				
	22	Wrench List								
	23	Ash Hoe COMPLETE	1	922-A-5010		922-A-5010				
	24	WRENCH [redacted] WRIST PIN	1	922-A-145		922-A-145				
	25	Clinker Hook	1			131-F-12				
	26	Poker	1			131-F-22				
	27	Wrecking Frogs (1PR) INSIDE / OUTSIDE	1 / 1	923-A-5005 / 923-A-5006				92-66 / 92-67		
	28	[redacted] COAL PICK	1	13101	WOOD HANDLE		92-22			
	29	Oil								
	30	GROUP 93—TRUCKS & DETAILS								
	31	TRUCK Plan - FRONT TRUCK	1-SET	939-A-5002						
	32	" Bolster - TOP	3-SET	933-A-5170						
	33	" " " End Casting—R.								
	34	" " " " —L.								

LED 60-27

Check	Item	T
		GROUP 93—TRUC
	1	Truck Crosstie B
	2	" "
	3	" "
	4	" "
	5	" "
	6	" "
	7	" "
	8	" "
	9	" "
	10	" Diagonal I
	11	" "
	12	" "
	13	" "
	14	" Equalizer
	15	" Gear Cove
	16	" " "
	17	" " "
	18	" " "
	19	" " "
	20	" " "
	21	" " "
	22	" " "
	23	"
	24	" King Bolt
	25	" " "
	26	" Safety Ch
	27	" " "
	28	" "
	29	" "
	30	
	31	TRUCK BOX—I
	32	" "
	33	" "
	34	" "

PATTERN NUMBERS		Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
Brass	Mal. Iron					Card No.	Construction Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron
				GROUP 93—TRUCKS & DETAILS (Cont.)								
			1	Truck Crosstie Bar—Top	2	932-A-5229				93-703		
			2	" " " "	4	932-A-5242		932-A-5242				
			3	" " " " Angles	1	932-B-5232						
COPPER 92-16			4	" " " " "	1	932-B-5233						
			5	" " " —Bottom	6	932-A-5234		1"X3½"X56⅛"				
			6	" " " - TOP ANGLES	4	932-A-5242		¾"X4"X4"LS 80¼"				
			7	" " " " Fill Block								
			8	" " " —Center	2	932-B-5240						
			9	" " " "	2	932-B-5239						
			10	" Diagonal Braces	2	932-A-5223		932-A-5223				
			11	" " "	8	932-A-5226		932-A-5226				
93-701			12	" " "								
			13	" " "								
			14	" Equalizer	3	932-A-5224	FORGED STEEL	932-A-5224 (WELDED CONSTRUCTION)				
			15	" Gear Cover	3	932-A-5682	PLATE	(APPLY CLIPS.				
			16	" " "	3	932-B-5682	"	(" " "				
			17	" " "	3	932-A-5683	"	(" " "				
			18	" " "	3	932-B-5683	"	(" " "				
			19	" " " Bracket CLAMP	12	932-C-5684		932-C-5684				
			20	" " " "	6	932-A-5684	PLATE	932-A-5684				
			21	" " " "	6	932-B-5684	"	932-B-5684				
			22	" " " "								
			23	"								
			24	" King Bolt	3	10153 SET 3	BAR STEEL	10153 SET 3				
			25	" " " Key	3	10153 SET 4	" "	FURNISH COTTERS				
			26	" Safety Chain—To Frame FT. OF FT. TRK.	2-SET	932-E-5249		932-E-5249	(LIMA TO FURN. EYEBOLTS			
			27	" " " " " REAR OF 1" REAR TRK.	2-SET	932-F-5249		932-F-5249	(" "	"		
			28	" " " " " L.S. FRONT "OF CENT. TRK	1-SET	932-H-5249		932-H-5249	(" "	"		
			29	" " " " " R.S. FRONT "OF CENT TRK	1-SET	932-J-5249		932-J-5249	(" "	"		
			30									
			31	TRUCK BOX—Right	6	933-C-5069				93-695		
			32	" " "								
			33	" " " COVER PLATE & SPRINGS	6	933-C-5069 TO SUIT IN TRUCK SHOP						
			34	" " "								

21		6	932-B-5684	"	932-B-5684					
22	" " " "									
23	"									
24	" King Bolt	3	10153 SET 3	BAR STEEL	10153 SET 3					
25	" " " Key	3	10153 SET 4	" "	FURNISH COTTERS					
26	" Safety Chain—To Frame FT. OF FT. TRK.	2-SET	932-E-5249		932-E-5249	(LIMA TO FURN. EYEBOLTS & RINGS				
27	" " " " " " REAR OF REAR TRK.	2-SET	932-F-5249		932-F-5249	(" " " "				
28	" " " " " " L.S. FRONT OF CENT. TRK	1-SET	932-H-5249		932-H-5249	(" " " "				
29	" " " " " " R.S. FRONT OF CENT TRK	1-SET	932-J-5249		932-J-5249	(" " " "				
30										
31	TRUCK BOX—Right	6	933-C-5069					93-695		
32	" " "									
33	" " " COVER PLATE & SPRINGS	6	933-C-5069 TO SUIT IN TRUCK SHOP							
34	" " "									
35	" " Cap—Right	6	932-B-5222					93-696		
36	" " " "									
37	" " " "									
38	" " " "									
39	" Pedestal	6	933-B-5064					93-694		
40	" " Cap	6	933-A-5169					93-916		
41	" " " Shim	12	2½" WIDE X 13½ LONG X THK. TO SUIT		1020 STEEL - DRILL TO SUIT.					
42	" " " "									
43	" " " "									
44	" " " "									
45	" Box—Inside	6	932-A-5678					93-914		
46	" " Cap—Inside	6	932-A-5677			93-913				
47	" Inside Box Spring Center									
48	" " Thrust Plate	6	932-D-5505						93-917	
49	" Journal Brass	12	932-A-5228	BABBITED					93-701	
50	" " " Wedge									
51	" THRUST PLATE WEDGE	6	933-A-5168	FURNISH STUD & NUT				93-915		
52	" " " " NUT	6	" "	C.R. STEEL						
53	" " " " BOLT	6	932-A-5679	- STEEL. FURNISH WASHERS, NUTS & COTTER.						
54										
55										
56										
57										
58										
59										
60										
61										

Check	Item	
	0	GROUP
	1	Brake Sh
	2	Chisel—
	3	"
	4	Hammer
	5	Jack Scr
	6	"
	7	"
	8	"
	9	"
	10	"
	11	"
	12	JOURNAL
	13	Journal
	14	Packing
	15	"
	16	Pinch Ba
	17	Jack Bar
	18	Torch —
	19	SUPHTR. "
	20	"
	21	Valve Tr
	22	Wrench
	23	Ash Hoe
	24	WRENCH "
	25	Clinker
	26	Poker
	27	Wrecking
	28	
	29	Oil
	30	GROUP 9
	31	TRUCK
	32	"

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass
		GROUP 94—VALVES—DISTRIBUTION							
	1	Piston Valve (FURNISH KEYS & DOWELS)	3	943-A-5008					
	2	" " Follower	6	" "				94-419	
	3	" " T-Ring BULL RING	6	" "			94-421		
	4	" " Snap Ring	12	" "			94-420		
	5	Slide Valve BODY	3	" "			94-418		
	6	" " Plate							
	7	" " Packing Strip							
	8	" " " "							
	9	" " Ring—Mat'l For			Pot Pattern				
	10	" " Spring							
	11	VALVE ROD X-HEAD (RH) GUIDE	1R	942-A-5102	NO. 1 CYL			94-442	
	12	VALVE STEM CROSSHEAD BRACKET	3	942-A-5103				94-423	
	13	VALVE STEM (FURNISH NUTS DOWELS ETC.)	3	942-A-5101		942-A-5101			
	14	" " Crosshead (LH)	2L	942-A-5102	NO. 2 & 3 CYL.			94-442	
	15	" " " Guide	3R 3L	942-A-5104			94-425		
	16	" " " " Plate	3R 3L	" "			94-424		
	17	" " " LINERS	6	" "	9" C.R. STEEL X 1 3/4" X 11 1/4" FIN. SIZES				
	18	VALVE STEM X-HEAD PINS	SEE	LINK BLOCK PIN - PAGE -14		ITEM 8			
	19	VALVE YOKE							
	20	" STEM KEY ARR'GT.	—	942-A-5100					
	21	" STEM Key	3	942-A-5100	STEEL 3/8" X 1 1/2" X 4 3/4" LONG FIN SIZES				
	22	VALVE STEM PACKING	3 SET		J.M. COIL TYPE C-2	FOR SUPERHEATED STEAM			
	23	Packing Rings							
	24	" Spring Washer							
	25	" Swab Cup							
	26	" Vibrating Cup							
	27	" Follower							
	28	" Stuffing Box		(CAST INTEGRAL WITH PISTON VALVE HEAD)					
	29	" " " Gland	3	942-A-5105			94-426		
	30	" Spring							
	31	" Studs, Valve Stem							
	32	WHEEL TIRE MATERIAL ORDER	12	95-MO-5095					

30-39

Item	
	CR
1	HAN
2	"
3	"
4	"
5	"
6	"
7	"
8	"
9	"
10	"
11	"
12	"
13	"
14	"
15	"
16	CA
17	CY
18	CY
19	"
20	" VA
21	"
22	"
23	"
24	HA
25	CO
26	"
27	"
28	
29	
30	
31	GL
32	"

	24	[illegible]									
	25	Clinker H									
	26	Poker									
	27	Wrecking									
	28	[illegible]									
	29	Oil									
	30	GROUP 93									
	31	TRUCK F									
	32	" F									
	33	"									
	34	"									
	35	"									
	36	"									
	37	"									
	38	"									
	39	"									
	40	"									
	41	"									
	42	"									
	43	" C									
	44	" Si									
	45	"									
	46	" F									
	47	"									
	48	"									
	49	" SIDE									
	50	" R									
	51	" L									
	52	" R									
	53	" L									
	54	" B									
	55	"									
	56	"									
	57	"									
	58	"									
	59	" Co									
	60	"									
	61	" SIDE									

	23	Packing Rings									
	24	" Spring Washer									
	25	" Swab Cup									
	26	" Vibrating Cup									
	27	" Follower									
	28	" Stuffing Box		(CAST INTEGRAL WITH PISTON VALVE HEAD)							
	29	" " " Gland	3	942-A-5105				94-426			
	30	" Spring									
	31	" Studs, Valve Stem									
	32	WHEEL TIRE MATERIAL ORDER	12	95-MO-5095							
	33	GROUP 95—WHEELS AND TIRES									
	34	Wheel	12	953-A-5014					95-263-B		
	35	Tire (NO-175)	12	952-A-5068							
	36	Hub Plate	12	953-A-5014						95-322	
	37	" " SCREWS	120	" "	STICK BRASS				"		
	38										
	39	GROUP 96—WHISTLE AND RIGGING									
	40	WHISTLE	1	NATHAN NO # 963-A-1030							
	41	" Bowl									
	42	" [illegible] SHAFT BRKT. L.S.	1	962-A-5022		962-A-5022	(FURN. & WELD ON BOSS				
	43	" [illegible] " " - R.S.	1	962-B-5022		962-B-5022	(" " "				
	44	" [illegible] SHAFT	1	963-A-5002							
	45	" [illegible] " " CT. BAL.	1	962-D-212	STEEL	962-D-212					
	46	" [illegible] " ARM	1	963-C-54				96-214			
	47	" Lever	1	962-A-275	STEEL	962-A-275					
	48	" Elbow	1	962-A-5002						96-75	
	49	" Rigging	1-SET	963-A-5002	APPLY BOLTS & WOOD BLOCK TO CAB						
	50	WHISTLE Hand Lever	1	963-A-5002	STEEL	96-A-73					
	51	" " " [illegible] ROPE	1-SET	963-A-5002							
	52	" Rod	1-SET	962-C-212	3/8" I.R.	(WELD IN JAWS)					
	53	" [illegible] JAWS	2	102-F-377	STEEL	102-F-377					
	54	" [illegible] PINS	2	963-A-5002	STEEL RIVETS						
	55	" RIGGING [illegible] BLOCKS	2	963-A-5002	WOOD						
	56	" " ROPE HANDLE	1	963-A-5002	WOOD FILE HANDLE						
	57	GROUP 99—MISCELLANEOUS BILLET LIST	1-SET	992-A-460							
	58	SPEED RECORDER RIGGING									
	59	CLEARANCE DIAGRAM	1-SET	981-A-5009							
	60	WHEEL BASE DIAGRAM	1-SET	982-A-5005							
	61										

Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
	GROUP 30—TRUCKS & DETAILS (Cont.)								
1	HAND RAIL COLUMN ($8\frac{1}{2}$")	3	532-K-485	ON SMOKE BOX R & L			53-649		
2	" " " " ($7\frac{1}{2}$")	1	532-M-485	1ST. CR. FRONT L.S.			53-652		
3	" " " " Angl ($7\frac{1}{2}$")	2	532-M-485	1ST. CR. BK. - L.S. F. BOX - BK. - LS.			53-652		
4	" " " " " (6")	1	532-C-762	DOME COURSE L.S.			53-653		
5	" " " Bottom CAPS	1	532-K-485				53-646		
6	" " " "								
7	" " " " Fill Block	3	532-M-485				53-646		
8	" " " Center	2	532-C-762				53-646		
9	" " " WASHERS (2")	1	532-A-272	1ST CR. FT. - L.S.		53-107			
10	" Diagonal Braces " (3")	1	532-K-272	1st CR. BK - LS.		53-492			
11	" " " " ($2\frac{1}{2}$")	2	532-B-272	F. BOX - FT. & BK.		53-111			
12	" " " BRKT.	1	532-A-5095	DOME CR. L.S.	532-A-5095		(FURN. COMPLETE APPLY RIVETS)		
13	" " POST	2	532-A-5096	ON RUN BD. R. SIDE	532-A-5096				
14	" Equalizer "	3	532-B-5096	" " "	532-B-5096				
15	" Gear Cover "	1	532-C-5096	" " " "	532-C-5096				
16	CAB HANDLE POST TOP	4	532-A-5102		532-A-5102				
17	CYL. FRAME GRAB HANDLE	1-LEFT 2-RIGHT	532-A-5104		532-A-5104				
18	CAB HANDLE POST	1-R	532-A-5103		532-A-5103				
19	" " " Bracket	1-R 1-L	532-A-5105		532-A-5105			WHITE METAL 54-324	
20	VALVE NAME PLATE	2	542-N-121	INJ.				WHITE METAL 54-202	
21	" " " "	1	542-E-121	BLOWER				WHITE METAL 54-322	
22	" " " "	1	542-L-121	TURRET				WHITE METAL 54-201	
23	" " " "	1	542-D-121	AIR PUMP					
24	HANDRAIL COLUMN ($6\frac{1}{2}$")	1	532-J-485	FIREBOX FRONT - L.S.			53-648		
25	CONDUIT CLAMPS - BASE	7	542-A-5035	BAR STEEL APPLY STUD					
26	" Safety Chain To CAP	7	542-A-5035		542-A-5035				
27	" " " J-BOLTS "	4	542-H-517		542-H-517				
28	" J-BOLTS	2	542-F-517		542-F-517				
29	" CLIPS	6	543-A-5001	ANGLE SEE DETAIL "P"					
30	" CLAMPS	6	543-A-5001		63-S-63				
31	ELECTRIC FIXTURE BRKT.	1	542-A-5034	STEEL					
32	" " " "	1	542-B-5034	PLATE					
33	" " "								
34	" " "								
35	VALVE NAME PLATE	1	542-E-121	DYNAMO				WHITE METAL 54-203	

CASTINGS—PATTERN NUMBERS			
Cast Iron	Cast Steel	Brass	
	94-419		
94-421			
94-420			
94-418			
	94-442		
101	94-423		
	94-442		
94-425			
94-424			
SIZES			
LONG FIN SIZES			
HEATED			
D)			
94-426			
	95-263-B		

			22	" " " "	1	542-L-121	TURRET					WHITE METAL 54-322 WHITE METAL 54-201	
			23	" " " "	1	542-D-121	AIR PUMP						
			24	HANDRAIL COLUMN ($6\frac{1}{2}$")	1	532-J-485	FIREBOX FRONT - L.S.				53-648		
			25	CONDUIT CLAMPS - BASE	7	542-A-5035	BAR STEEL APPLY STUD						
			26	" Safety Chain " T-F CAP	7	542-A-5035		542-A-5035					
			27	" " " J-BOLTS "	4	542-H-517		542-H-517					
			28	" J-BOLTS	2	542-F-517		542-F-517					
94-426			29	" CLIPS	6	543-A-5001	ANGLE SEE DETAIL "P"						
			30	" CLAMPS	6	543-A-5001		63-S-63'					
			31	ELECTRIC FIXTURE BRKT.	1	542-A-5034	STEEL						
			32	" " " "	1	542-B-5034	PLATE						
			33	" " "									
	95-263-B		34	" " "									
			35	VALVE NAME PLATE	1	542-F-121	DYNAMO					WHITE METAL 54-203 WHITE METAL 54-198 WHITE METAL 54-321	
		95-322	36	" " " "	2	542-A-121	WATER GLASS						
			37	" " " "	1	542-K-121	LUBRICATOR						
			38	" " " "									
			39	" Pedestal									
			40	" " Cap									
			41	" " " Shim									
(FURN. & WELD ON BOSS)			42	" PIPE CLAMP BASE - OIL PIPES	11	632-A-5019	STEEL - FURN. STUD						
(" " " ")			43	" " " " CAP - " "	11	632-A-5019	STEEL	632-A-5019					
			44	" " " " BASE " "	5	632-B-5019	STEEL - FURN. STUD						
			45	" "Box" Inside CAP " "	5	632-B-5019	STEEL	632-B-5019					
96-214			46	" " " Cap - BASE " "	1	632-C-5019	STEEL - FURN. STUD						
		96-75	47	" "Inside Box CAP Center "	1	632-C-5019	STEEL	632-C-5019					
			48	" " " "Thru BASE " "	2	632-D-5019	STEEL - FURN. STUD						
			49	" "Journal" Bra CAP " "	2	632-D-5019	STEEL	632-D-5019					
			50	" " " " " BASE " "	3	632-E-5019	STEEL - FURN. STUDS						
			51	" " CAP " "	3	632-E-5019	STEEL	632-E-5019					
			52	" " - SANDER	10	633-H-71		633-H-71					
			53	" " CAPS "	10	633-H-71		633-H-71					
			54	" " "	8	633-P-71		633-P-71					
			55	" " CAPS "	8	633-P-71		633-P-71					
			56	" " " " ON BRK BEAM	4	632-A-5022		632-A-5022					
			57	" " BASE " AIR LINE	7	632-F-1291	STEEL - FURN. STUD						
			58	" " CAP " " "	7	632-F-1291		632-F-1291					
			59	" " " " DAMPER CYL LINE "	3	633-R-14		633-R-14					
			60	" " CAP " "	3	633-R-14		633-R-14					
			61	" " " " "	1	633-H-71		633-H-71					
			62	" " CAP " "	1	633-H-71		633-H-71					

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construction Notes	FORGINGS Sketch No.	Cast Iron
		VALVE EXTENSION HANDLE PLATE GUIDE	1	272-A-5021	BAR STEEL		
	1	Piston Valve " " "LUG	1	272-A-5021	" "	272-A-5021	
	2	" " Follower " " "BRKT.	2	272-A-5022	" "	272-A-5022	
	3	" " T-Ring					
	4	" " Snap Ring					
	5	Slide Valve					
	6	" " Plate					
	7	" " Packing Strip					
	8	" " " "					
	9	" " Ring—Mat'l For			[redacted]		
	10	" " Spring					
	11						
	12						
	13	VALVE STEM					
	14	" " Crosshead					
	15	" " " Guide					
	16	" " " " Plate					
	17	" " " Gibs					
	18						
	19	VALVE YOKE					
	20	PIPE CLAMP BRKT.	1	632-A-5021	FURN. GUSSET	632-A-5021	
	21	" " Key CAP	1	632-B-5021		632-B-5021	
	22	VALVE STEM PACKING	11	633-J-16		633-J-16	
	23	Packing Rings CAP	11	633-J-16		633-J-16	
	24	" Spring Washer	4	633-A-15		633-A-15	
	25	" Stud CAP	4	633-C-16		633-C-16	
	26	" Gland CAP	4	633-C-16		633-C-16	
	27	" Follower	2	633-B-81		633-B-81	
	28	" Stuffing CAP	2	633-B-81		633-B-81	
	29	" " " Gland	4	633-B-15		633-B-15	
	30	" Spring					
	31	" Studs, Valve Stem	1	633-M-71		633-M-71	
	32	" " CAP	1	633-M-71		633-M-71	
	33	GROUP 95 " WHEELS AND TIRES	3	633-F-14		633-F-14	
	34	Wheel " CAP	3	633-F-14		633-F-14	
	35	Tire "	6	633-N-14		633-N-14	
	36	Hub Plate " CAP	6	633-N-14		633-N-14	
	37	" "	11	633-D-16		633-D-16	
	38	" " CAP	11	633-D-16		633-D-16	
	39	GROUP 96 " BRIDLE AND RIGGING	1	633-D-14		633-D-14	
	40	WHISTLE " CAP	1	633-D-14		633-D-14	
	41	" Bowl	3	633-J-14		633-J-14	
	42	" Ball CAP	3	633-J-14		633-J-14	
	43	" Valve	2	633-M-16		633-M-16	
	44	" Cap CAP	2	633-M-16		633-M-16	
	45	" Unit	1	633-B-16		633-B-16	
	46	" " CAP	1	633-B-16		633-B-16	
	47	" Lever	3	633-W-14		633-W-14	
	48	" Valve CAP	3	633-W-14		633-W-14	
	49	" Housing					
	50	WHISTLE " Lever					
	51	" " " Fulcrum					
	52	" Rod					
	53	" Bell Crank					
	54	" Rod Thimble					
	55	" " " Washer					
	56						
	57	GROUP 98 MISCELLANEOUS					
	58	SPEED RECORDER RIGGING					
	59						
	60						
	61						

CLASSIFICATION OF DRAWINGS

GEARED LOCOMOTIVE

Group No.	TITLE
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14	Boiler Details and Attachments—Tubes and Flues. Boiler Checks—See 55
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23	Cab Details, Apron, Brackets, Door Fixtures, Ventilator, etc. Cab Handle—See 53 Cab Lamp—See 54 Cab Tool Box—See 23 Cab Turret—See 78 Chafing Plate—See 48 Cinder Valve and Pipe—See 75 Clearances—See 98 Coal Pusher—See 88
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27	Cocks and Valves, Gauge, Water and Special
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